Alabama Department of Environmental Management

MAJOR SOURCE OPERATING PERMIT

PERMITTEE: **Packaging Corporation of America**

FACILITY NAME: **Jackson Mill**

FACILITY/PERMIT NO.: 102-0001

LOCATION: Jackson, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: DRAFT

Effective Date: DRAFT

Expiration Date: DRAFT

Alabama Department of Environmental Management

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FUGITIVE DUST PLAN ..... **APPENDIX A**

General Permit Provisos

Federally Enforceable Provisos	Regulations
1. Transfer	
This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.	Rule 335-3-16-.02(6)
2. Renewals	
An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.	Rule 335-3-16-.12(2)
The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.	
3. Severability Clause	
The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	Rule 335-3-16-.05(e)
4. Compliance	
(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	Rule 335-3-16-.05(f)
(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	Rule 335-3-16-.05(g)
5. Termination for Cause	
This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a	Rule 335-3-16-.05(h)

Federally Enforceable Provisos	Regulations
notification of planned changes or anticipated noncompliance will not stay any permit condition.	
6. Property Rights	
The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-16-.05(i)
7. Submission of Information	
The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.	Rule 335-3-16-.05(j)
8. Economic Incentives, Marketable Permits, and Emissions Trading	
No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	Rule 335-3-16-.05(k)
9. Certification of Truth, Accuracy, and Completeness:	
Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	Rule 335-3-16-.07(a)
10. Inspection and Entry	
Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:	Rule 335-3-16-.07(b)
(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;	
(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;	
(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment),	

Federally Enforceable Provisos	Regulations
practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. **11. <u>Compliance Provisions</u>** (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	Rule 335-3-16-.07(c)
(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. **12. <u>Compliance Certification</u>** A compliance certification shall be submitted annually on August 31st.	Rule 335-3-16-.07(e)
(a) The compliance certification shall include the following: (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Department may require to determine the compliance status of the source; (b) The compliance certification shall be submitted to: EPA through the Compliance and Emissions Data Reporting Interface (CEDRI) located on EPA's Central Data Exchange (CDX) and to: Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463	

Federally Enforceable Provisos	Regulations
13. Reopening for Cause	
Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:	Rule 335-3-16-.13(5)
(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.	
(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.	
(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.	
(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	
14. Additional Rules and Regulations	
This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.	§22-28-16(d), Code of Alabama 1975, as amended
15. Equipment Maintenance or Breakdown	
(a) In the case of shutdown for more than one (1) hour of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:	Rule 335-3-1-.07(1), (2)

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(1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. (b) In the event that there is a breakdown of equipment or upset of process for a period exceeding one (1) hour in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.	
16. <u>Operation of Capture and Control Devices</u> All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.	§22-28-16(d), Code of Alabama 1975, as amended
17. <u>Obnoxious Odors</u> This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.	Rule 335-3-1-.08
18. <u>Fugitive Dust</u>	

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(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.	Rule 335-3-4-.02
(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds: (1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (3) By paving; (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne.	
19. <u>Additions and Revisions</u>	
Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.	Rule 335-3-16-.13 and .14
20. <u>Recordkeeping Requirements</u>	
(a) Records of required monitoring information of the source shall include the following: (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and	Rule 335-3-16-.05(c)2

Federally Enforceable Provisos	Regulations
(6) The operating conditions that existed at the time of sampling or measurement.	
(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.	
21. <u>Reporting Requirements</u>	
(a) Reports to the Department of any required monitoring shall be submitted semiannually by February 28th and August 31st. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).	Rule 335-3-16-.05(c)3
(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22. <u>Emission Testing Requirements</u>	
Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised. As allowed in MACT and other regulations, flexibility is provided to use alternative test methods, as approved by EPA, ADEM or permit condition.	Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)
The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.	
To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	
(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which	Rule 335-3-1-.04

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sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.	Rule 335-3-1-.04
All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division or an alternative time is specified by an applicable regulation.	
23. <u>Payment of Emission Fees</u>	
Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.	Rule 335-1-7-.04
24. <u>Other Reporting and Testing Requirements</u>	
Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	Rule 335-3-1-.04(1)
25. <u>Title VI Requirements (Refrigerants)</u>	
Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F. No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing,	40 CFR Part 82

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maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.	
26. Chemical Accidental Prevention Provisions If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then: (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68.10(a) or, (2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.	40 CFR Part 68
27. Display of Permit This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.	Rule 335-3-14-.01(1)(d)
28. Circumvention No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	Rule 335-3-1-.10
29. Visible Emissions Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part	Rule 335-3-4-.01(1)

Federally Enforceable Provisos	Regulations
60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	
30. <u>Fuel-Burning Equipment</u>	
(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.	Rule 335-3-4-.03
(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.	Rule 335-3-5-.01
31. <u>Process Industries – General</u>	
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.	Rule 335-3-4-.04
32. <u>Averaging Time for Emission Limits</u>	
Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	Rule 335-3-1-.05
33. Permit Shield	
A permit shield exists under this operating permit in accordance with ADEM Administrative Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such section are not applicable to this source.	Rule 335-3-16-.10

Pulp Mill
Informational Summary

Description: 6 Batch Digesters with Brown Stock Washers
Pulp Mill

Installation Date:		**Reconstruction/Modification Date:**
No. 1-4 Batch Digesters:	1964	
No. 5 Batch Digester:	1973	
No. 6 Batch Digester:	1983	
A-Line Brown Stock Washers:	1993	
B-Line Brown Stock Washers:	1996	2022

Operating Capacity:	
Batch Digesters 1-6:	120,833 lb air-dry pulp/hr
A-Line Brown Stock Washers:	75,250 lb air-dry pulp/hr
B-Line Brown Stock Washers:	66,667 lb air-dry pulp/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart BB
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Z005	Batch Digesters 1-5	TRS	Incineration	Rule 335-3-5-.04 (5)
Z005	Batch Digester 6	TRS	Incineration	Rule 335-3-5-.10-.02 (28)
Z005	Batch Digesters 1-6	HAPs	Incineration	Rule 335-3-11-.06 (18)
X021	Brown Stock Washers	TRS	Incineration	Rule 335-3-10-.02 (28)
X021	Brown Stock Washers	HAPs	Incineration	Rule 335-3-11-.06 (18)

Pulp Mill
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The A-Line and B-Line Brown Stock Washers and Digester No. 6 are subject to federal New Source Performance Standards Subpart BB and 40 CFR 60 Subpart A, General Provisions.	Rule 335-3-10-.02 (1) and (28)
3. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S (See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for additional requirements).	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. All gases discharged from the A-Line and B-Line Brown Stock Washers and Digester No. 6 that contain total reduced sulfur in excess of 5 parts per million on a dry basis corrected to 10% oxygen shall be incinerated in the Lime Kiln or Combination Fuel Boiler subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds.	Rule 335-3-10-.02 (28)
2. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for details.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for details.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for details.	Rule 335-3-11-.06 (18)
2. For total reduced sulfur periodic monitoring, once per day mill personnel shall determine if the gases are being incinerated as required. If gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. See Provisos for "Pulping System Processes", "Process Condensates", and "Enclosures and Closed Vent Systems" for details.	Rule 335-3-11-.06 (18)
2. Once per day records determination if total reduced sulfur gases are being incinerated shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05 (c)

Pulp Mill
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. Digesters 1 through 5 are subject to the requirements of ADEM Admin. Code 335-3-5-.04 (5) total reduced sulfur from kraft pulp mill digester systems.	Rule 335-3-5-.04 (5)
Emission Standards	
1. For Digesters 1 through 5, all gases discharged that contain total reduced sulfur in excess of 5 parts per million on a dry basis corrected to 10% oxygen shall be incinerated in the Lime Kiln or Combination Fuel Boiler subjecting the gases to a minimum temperature of 1200° Fahrenheit for at least 0.5 seconds. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur because of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (5)
Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional specific requirements, other than those listed in the General Permit Provisos.	
Emission Monitoring	
1. For total reduced sulfur periodic monitoring, once per day mill personnel shall determine if the gases are being incinerated as required. If gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. Once per day records determination if total reduced sulfur gases are being incinerated shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05 (c)

Lime Kiln
Informational Summary

Description: Lime Kiln
Recausticizing Area

Installation Date: 1964 **Reconstruction/Modification Date:** N/A

Operating Capacity: 19,250 lb CaO/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Z003-301	Lime Kiln	PM	$\leq$ 1.0 lb/ADTP	Rule 335-3-4-.07 (2)(c)
Z003-301	Lime Kiln	SO_2	$\leq$ 8.51 lb/hr	Rule 335-3-14-.04
Z003-301	Lime Kiln	NOx	$\leq$ 3.50 lb/ton CaO and $\leq$ 33.7 lb/hr	Rule 335-3-14-.04 (9)
Z003-301	Lime Kiln **(State only)**	TRS	Shall not exceed 20 ppmv at 10% O_2	Rule 335-3-5-.04
Z003-301	Lime Kiln	Opacity	20% with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01
Z003-301	Lime Kiln	HAPs (PM as a surrogate)	$\leq$ 0.064 grains/dscf at 10% O_2	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Nos. 2 -6 Fuel Oil	2.3	0.5
Natural Gas		

Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) limitation for nitrogen oxides.	Rule 335-3-14-.04 (9)
3. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-14-.04 prevention of significant deterioration synthetic minor limit for sulfur dioxide.	Rule 335-3-14-.04
4. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.07 (2)(c) for particulate matter from kraft pulp mill lime kilns.	Rule 335-3-4-.07 (2)(c)
5. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
6. This source is subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart MM and 40 CFR Part 63 Subpart MM as referenced in ADEM Admin. Code 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. In accordance with 40 CFR Part 63 Subpart MM, particulate matter emissions, as a surrogate for HAPs, shall not exceed 0.064 gr/dscf at 10% oxygen.	Rule 335-3-11-.06 (38)
2. Particulate matter emissions shall not exceed 1.0 pounds per air-dried ton of pulp.	Rule 335-3-4-.07 (2)(c)
3. Sulfur dioxide emissions from this unit shall not exceed 8.51 pounds per hour.	Rule 335-3-14-.04
4. Nitrogen oxides emissions shall not exceed 3.50 lb/ton as CaO and 33.7 lb/hr.	Rule 335-3-14-.04 (9)
5. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
2. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)

Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
3. Compliance with the sulfur dioxide emission limit shall be determined by Reference Method 6 or 6C in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
4. Compliance with the nitrogen oxides emission rates of this unit shall be determined by Reference Method 7E in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-1-.04
2. A sulfur dioxide emissions test shall be performed at least once every 5 years.	Rule 335-3-1-.04
3. A nitrogen oxides emissions test shall be performed at least once every 5 years.	Rule 335-3-1-.04
4. For particulate matter periodic monitoring, if any three-hour average wet scrubber pressure drop or liquid flow rate, when lime mud is fed, is less than the average value recorded at the time of the most recent required periodic test that showed compliance or a test approved by the Department that showed compliance, with the exception of pressure drop during periods of startup and shutdown, the cause is to be investigated and appropriate corrective action is to be initiated. This unit will be in violation of 40 CFR 63.862 when six or more three-hour average flow rate or pressure drop within any 6-month reporting period are below the minimum operating limit established according to 40 CFR 63.864(j) during times when lime mud is fed, with the exception of pressure drop during periods of startup and shutdown. For purposes of determining the number of nonopacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period.	Rule 335-3-11-.06 (38)
5. For particulate matter periodic, nitrogen oxides, and sulfur dioxide monitoring, if any three-hour block average lime mud flow rate is greater than 110 percent of its average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the lime mud flow rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
6. Since this unit is controlled by a wet scrubber, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring.	Rule 335-3-16-.05
7. In accordance with 40 CFR 63.8(g)(5), monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high level adjustments shall not be included in any data average computed under 40 CFR 63, Subpart MM.	Rule 335-3-11-.06 (38)

Lime Kiln
Provisos

Federally Enforceable Provisos	Regulations
8. For compliance with 40 CFR Part 63, Subpart MM, a particulate matter performance test shall be performed, pursuant to §63.865, every 5 years. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. A sulfur dioxide emissions test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-16-.05
3. A nitrogen oxides emissions test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-16-.05
4. Records of CaO production rates in units of megagram per day or ton per day shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-11-.06 (38)
5. Records of all three-hour block average lime mud flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
6. Records of all three-hour block average wet scrubber pressure drop and liquid flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
7. In accordance with §63.866(b) and §63.864(k)(1), the facility must maintain records of any occurrence when corrective action is required (when a three-hour average flow rate or pressure drop is below the minimum operating limit established according to §63.864(j) during times when lime mud is fed, with the exception of pressure drop during periods of startup and shutdown), and when a violation, per §63.864(k)(2), is noted (when six or more three-hour average flow rate or pressure drop values within any 6-month reporting period are below the minimum operating limit established according to §63.864(j) during times when lime mud is fed, with the exception of pressure drop during periods of startup and shutdown).	Rule 335-3-11-.06 (38)
8. In accordance with §63.866(c), in addition to the general records required by §63.10(b)(2)(iii) and (vi) through (xiv), the facility must maintain records of parametric monitoring data required in §63.864, including any period when the three-hour average flow rate or pressure drop, during times when lime mud is fed, were inconsistent with the levels established during the initial or subsequent performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, the time corrective action was initiated and completed, and corrective action taken.	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
The facility must also maintain records and documentation of supporting calculation for compliance determinations made under 40 CFR 63.865(a) through (d). The facility must also maintain the records of the monitoring parameter ranges for the scrubber's pressure drop and scrubber flow rates.	
9. In accordance with §63.866(d), in the event this unit fails to meet and emission limit in §63.862 or a CPMS operating limit in §63.864, record the number of failures. For each failure record the date, start time, duration of each failure, and: (i) For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions. (ii) For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted of the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. Record actions taken to minimize emissions in accordance with §63.860(d) and any corrective actions taken to return the unit to its normal or usual manner of operation.	Rule 335-3-11-.06 (38)
10. In accordance with 40 CFR Part 63, Subpart MM, the facility must submit a semiannual Excess Emissions Report and/or Summary Report containing the information required in 40 CFR 63.867(c), including the number and duration of three-hour averages when the flow rate or pressure drop were below the minimum operating limit. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is less than 1 percent of the total reporting period operating time, and CMS downtime is less than 5 percent of the total reporting period operating time, only the Summary Report is required to be submitted. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is 1 percent or greater of the total reporting period operating time, or the total CMS downtime for the reporting period is 5 percent or greater of the total reporting period operating time, or any violations according to 40 CFR 63.864 (k)(2) occurred, information from both the Summary Report and Excess Emissions Report must be submitted. Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2). Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.	Rule 335-3-11-.06 (38)

Lime Kiln
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04 (6) for total reduced sulfur from kraft pulp mill lime kilns.	Rule 335-3-5-.04 (6)
Emission Standards	
1. Total reduced sulfur emissions shall not exceed 20 parts per million at 10 percent oxygen averaged over discrete twelve-hour periods. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (6)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the total reduced sulfur emission limit shall be determined in accordance with the continuous emission monitor, 40 CFR Part 60 Method 16, 16A, or 16B.	Rule 335-3-16-.05
Emission Monitoring	
1. A total reduced sulfur continuous emissions monitoring system which meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 5 shall be installed, operated, calibrated, and maintained.	Rule 335-3-5-.04 (8)
2. A total reduced sulfur continuous emission monitor shall be installed, calibrated, maintained and operated in accordance with 40 CFR 60.284, except that monitoring spans may be approved by the Director.	Rule 335-3-5-.04 (8)
Recordkeeping and Reporting Requirements	
1. A report of excess total reduced sulfur emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. The magnitude of excess emissions greater than 20 parts per million adjusted to 10 percent oxygen computed from twelve-hour averages (data recorded during periods of total reduced sulfur emission monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.	Rule 335-3-5-.04 (9)

State Only Enforceable Provisos	Regulations
d. The date and time identifying each period during which the total reduced sulfur emission monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e. When no excess emissions have occurred and the total reduced sulfur emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	

Paper Machines
Informational Summary

Description: No. 1 & No. 3 Paper Machines
Paper Machines

Installation Date: No. 1: 1966
No. 3: 1997

Reconstruction/Modification Date: No. 1: 2022
No. 3: 2024

Operating Capacity: No. 1: 600 MDT/d
No. 3: 2,500 MDT/d

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
N/A

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X026-501	No. 1 Paper Machine	VOC	$\leq$ 1.26 lb/ADTFP & $\leq$ 393.7 tpy (Combined with No. 3 Paper Machine)	Rule 335-3-14-.04 (9)
X027-503	No. 3 Paper Machine	VOC	$\leq$ 1.26 lb/ADTFP & $\leq$ 393.7 tpy (Combined with No. 1 Paper Machine)	Rule 335-3-14-.04 (9)

Paper Machines
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code 335-3-14-.04 (9) Prevention of Significant Deterioration (PSD) Best Available Control Technology (BACT) “work practice standard” for volatile organic compounds.	Rule 335-3-14-.04 (9)
Emission Standards	
1. Such that the standards for Best Available Control Technology (BACT) shall be met, the volatile organic compounds emissions shall be controlled by the use of low-VOC water sources for the paper machine including but not limited to mill supply water (cold mill water and warm mill water), non-direct contact condensates, clean condensates, well water, demineralized water or white water. The following standards shall apply:	Rule 335-3-14-.04 (9)

Pollutant	Rate Based Limit	Mass Based Limit
VOC	1.26 lb/ADTFP	393.7 tpy (Combined)

Compliance and Performance Test Methods and Procedures	
1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	
Emission Monitoring	
1. This source shall meet the emissions limits based on the calculations as demonstrated in Appendix C.	Rule 335-3-14-.04
Recordkeeping and Reporting Requirements	
1. This source shall maintain and submit the following records to the Department after construction of this unit: a. Calculate, and maintain a record of the monthly VOC emissions, in tons per year, and make this information available for review upon inspection. b. Submit to the Department on a semi-annual basis a report containing the following information: (1) The name, address, and telephone number of the facility (2) All information required in the pre-project record for this source (3) The previous six monthly VOC emissions calculated per 5.1.a in Appendix C.	Rule 335-3-14-.04

Appendix C: PM1 & PM3 Monthly VOC Emissions Calculation Methodology

VOC emissions for individual PM1 & PM3 stock types are calculated using Equation 1-1 and the respective stock's emissions factor and monthly throughput. Total monthly VOC emissions are calculated as the summation of the individual PM1 & PM3 stock VOC emissions as shown in Equation 1-2. 12-month rolling total PM1 & PM3 VOC emissions are calculated as shown in Equation 1-3. The Rate Based Limit is calculated as shown in Equation 1-4.

Equation 1-1: $\frac{F \times T}{2{,}000} = E$

Where:

F = Stock emissions factor, lb/ADTFP

- OCC Stock = 0.145[1]
- Unbleached Softwood Stock = 1.26[2]

Equation 1-2: $E_M = \sum_{i=1}^{4} E_i$

Where:

E_M = Total monthly PM1 & PM3 VOC emissions, tons per month

E = Individual stock emissions as calculated in Equation 1-1, tons per month

Equation 1-3: $E_{12month} = \sum_{i=1}^{12} E_{M_i} \leq 393.7\ tpy$

Where:

$E_{12month}$ = 12-month rolling total of PM1 & PM3 VOC emissions, tpy

Equation 1-4: $R = \frac{E_M \times 2{,}000}{P} \leq 1.26 \frac{lb}{ADTFP}$

Where:

R = Rate based calculation, lb/ADTFP

P = Total monthly paper machine production, ADTFP

[1] Factor developed from NCASI 2018 Air Toxics Database Version 1.11 for paper machines processing 100% recovered fiber. Factor is the sum of individual VOC constituents.

[2] Factor developed from NCASI 2018 Air Toxics Database for unbleached linerboard with a whitewater methanol concentration of less than 50 ppm. Factor is the sum of individual VOC constituents.

No. 1 Multiple Effect Evaporator System
Informational Summary

Description: No. 1 Multiple Effect Evaporator
Utilities Area

Installation Date: 1964 **Reconstruction/Modification Date:** 1996

Operating Capacity: 112,500 lb BLS/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart BB
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Z004	Multiple Effect Evaporators	TRS	Incineration	Rule 335-3-10-.02 (28)
Z004	Multiple Effect Evaporators	HAPs	Incineration	Rule 335-3-11-.06 (18)

No. 1 Multiple Effect Evaporator System
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to Federal New Source Performance Standards Subpart BB and 40 CFR 60 Subpart A, General Provisions.	Rule 335-3-10-.02 (1) and (28)
3. This source is subject to Federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 40 CFR Part 63 Subpart S (See “Provisos for Pulping System Processes”, “Process Condensates” and “Enclosures and Closed Vent Systems” for additional requirements).	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. All gases discharged that contain total reduced sulfur in excess of 5 parts per million on a dry basis corrected to 10% oxygen shall be incinerated in the Combination Fuel Boiler or Lime Kiln subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds.	Rule 335-3-10-.02 (28)
2. See “Provisos for Pulping System Processes”, “Process Condensates” and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. See “Provisos for Pulping System Processes”, “Process Condensates” and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See “Provisos for Pulping System Processes”, “Process Condensates” and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06 (18)
2. For total reduced sulfur periodic monitoring, once per day mill personnel shall determine if the gases are being incinerated as required. If gases are not being incinerated, investigate and take corrective action within twenty-four hours.	Rule 335-3-16-.05 (c)
Recordkeeping and Reporting Requirements	
1. See “Provisos for Pulping System Processes”, “Process Condensates” and “Enclosures and Closed Vent Systems” for details.	Rule 335-3-11-.06 (18)
2. Once per day records determination if total reduced sulfur gases are being incinerated shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05 (c)

No. 2 Recovery Furnace
Informational Summary

Description: No. 2 Recovery Furnace
Utilities Area

Installation Date: 1973 **Reconstruction/Modification Date:** N/A

Operating Capacity: 124,000 lb BLS/hr
164 MMBtu/hr on Fossil Fuels

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart Db
40 CFR Part 63 Subpart MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Z011-602	No. 2 Recovery Furnace	PM	$\leq$ 4.0 lb/ton ADTP	Rule 335-3-4-.07 (2)(a)
Z011-602	No. 2 Recovery Furnace	HAPs (PM as surrogate)	$\leq$ 0.044 gr/dscf at 8% O_2	Rule 335-3-11-.06 (38)
Z011-602	No. 2 Recovery Furnace	TRS	$\leq$ 20 ppm at 8% O_2	Rule 335-3-5-.04 (3)
Z011-602	No. 2 Recovery Furnace	NOx	$\leq$ 10% annual capacity factor for fossil fuels	Rule 335-3-10-.02 (2)(b)
Z011-602	No. 2 Recovery Furnace	Opacity	$\leq$ 35% (6-min average)	Rule 335-3-11-.06 (38) Rule 335-3-10-.02 (28)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
No. 2 Fuel Oil	0.3	0.5
Natural Gas		

No. 2 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.07 (2)(a) particulate matter from kraft pulp mills.	Rule 335-3-4-.07 (2)(a)
3. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-10-.02 (2)(b) New Source Performance Standards Subpart Db for nitrogen oxide emissions when fossil fuels are fired and 40 CFR 60 Subpart A, General Provisions.	Rule 335-3-10-.02 (1) and (2)(b)
4. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.01 such that the opacity limit is the same as but the source is not subject to the New Source Performance Standards subpart BB for kraft recovery furnaces.	Rule 335-3-4-.01 Rule 335-3-14-.04 Rule 335-3-10-.02 (28)
5. This source is subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart MM and 40 CFR Part 63 Subpart MM as referenced in ADEM Admin. Code 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. In accordance with 40 CFR Part 63 Subpart MM, as a surrogate for HAPs, the particulate matter emissions shall not exceed 0.044 gr/dscf corrected to 8% O_2.	Rule 335-3-11-.06 (38)
2. This unit's annual capacity factor for firing fossil fuel shall not exceed ten percent, thus the 40 CFR Part 60 Subpart Db emission standards for nitrogen oxide are not applicable.	Rule 335-3-10-.02 (2)(b)
3. Opacity shall not exceed 35 percent (6-minute average) and shall not exceed 35 percent for 2 percent or more of the operating time when spent pulping liquor is fed within any semiannual period.	Rule 335-3-11-.06 (38)
4. Particulate matter emissions shall not exceed 4.0 pounds per air-dried tons of pulp from all recovery furnaces.	Rule 335-3-4-.07 (2)(a)
5. The sulfur content of fuel oil shall not exceed 0.3 percent by weight. The facility shall test each shipment of fuel oil to ensure that it contains less than 0.3% sulfur or obtain information from the vendor regarding the sulfur content of each shipment of fuel oil to be fired in the recovery furnace.	Rule 335-3-10-.02 (1) and (2)(b)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
2. Compliance with the opacity standard for this unit shall be determined with the continuous opacity monitoring system or Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (38)

No. 2 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
3. The sulfur content of fuel oil shall be determined by the applicable ASTM Standard.	Rule 335-3-1-.04 (2)(e)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. A continuous opacity monitoring system shall be installed, calibrated, operated and maintained in accordance with provisions in 40 CFR 63.6(h), 63.8, and 63.864(d)(1) through (4).	Rule 335-3-16-.05 Rule 335-3-11-.06 (38)
3. All six-minute average opacities will be continuously recorded while the unit is in operation.	Rule 335-3-16-.05
4. For particulate matter and opacity periodic monitoring when the COMs is available, if the average of any ten consecutive six-minute opacity averages of either stack exceeds 20 percent the cause is to be investigated and appropriate corrective action is to be taken.	Rule 335-3-16-.05 Rule 335-3-11-.06 (38)
5. For particulate matter periodic monitoring, if any three-hour block average liquor firing rate is greater than 110 percent of its average value set by the required complying periodic test or a complying test approved by the Department, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
6. In accordance with 40 CFR 63.8(g)(5), monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high level adjustments shall not be included in any data average computed under 40 CFR Part 63 Subpart MM.	Rule 335-3-11-.06 (38)
7. For compliance with 40 CFR Part 63, Subpart MM, a particulate matter performance test shall be performed, pursuant to §63.865, every 5 years. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06 (38)
8. The facility must maintain proper operation of the electrostatic precipitator's automatic voltage control (AVC) system.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour block average liquor-firing rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
3. Records of the amount of fossil fuel fired shall be made and the annual capacity factor calculated for each calendar year and maintained on file available for review for at least five years.	Rule 335-3-10-.02 (2)(b)

No. 2 Recovery Furnace
Provisos

Federally Enforceable Provisos	Regulations
4. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of five years. These records shall include any period when operating parameter levels were inconsistent with levels established during the initial performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred the time the corrective action was initiated and completed, and the corrective action taken.	Rule 335-3-16-.05 Rule 335-3-11-.06 (38)
5. In accordance with 40 CFR Part 63 Subpart MM, the facility must maintain records of any occurrence when corrective action is required when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity, and when a violation is noted when opacity is greater than 35 percent for 2 percent or more of the operating time within any semi-annual period.	Rule 335-3-11-.06 (38)
6. The facility shall maintain records of all 6-minute periods when the opacity is greater than 35%.	Rule 335-3-16-.05
7. In accordance with 40 CFR Part 63 Subpart MM, the facility must maintain records of the black liquor firing rates in terms of tons/day or Mg/day.	Rule 335-3-11-.06 (38)
8. A report shall be submitted to the Department for each calendar quarter within the month following the end of the quarter, certifying that only very low sulfur oil as defined in Subpart Db, was combusted during the reporting period.	Rule 335-3-10-.02 (2)(b)
9. The facility shall maintain records demonstrating compliance with the requirement of 40 CFR 63.864 (e)(1) to maintain proper operation of an electrostatic precipitator's AVC.	Rule 335-3-11-.06 (38)
10. Records and supporting documentation shall be kept for the compliance determinations, operating ranges, and parameter ranges established for this unit.	Rule 335-3-11-.06 (38)
11. In accordance with 40 CFR 63.866 (d), the facility must maintain sufficient information to estimate the quantity of each regulated pollutant emitted over the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator.	Rule 335-3-11-.06 (38)
12. In accordance with 40 CFR Part 63 Subpart MM, the facility must submit a semiannual Excess Emissions Report and/or Summary Report containing the information required in 40 CFR 63.867(c), including the number and duration of occurrences when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity when spent pulping liquor is fed, and when the opacity is greater than 35 percent for 2 percent or more of the operating time within any semiannual period. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is less than 1 percent of the total reporting period	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
operating time, and CMS downtime is less than 5 percent of the total reporting period operating time, only the Summary Report is required to be submitted. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is 1 percent or greater of the total reporting period operating time, or the total CMS downtime for the reporting period is 5 percent or greater of the total reporting period operating time, or any violations according to 40 CFR 63.864(k)(2) occurred, information from both the Summary Report and the Excess Emissions Report must be submitted. The reports will include the following information: a. The magnitude of emissions greater than 35 percent computed on a six-minute average (data recorded during periods of opacity monitor breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the opacity monitor was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e. When no excess emissions have occurred and the opacity monitor was not inoperative or did not require repairs or adjustments, such information will be stated in the report. Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2). Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.	

No. 2 Recovery Furnace
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04 (3) total reduced sulfur from kraft pulp mills.	Rule 335-3-5-.04 (3)
Emission Standards	
1. Total reduced sulfur emissions shall not exceed 20 parts per million corrected to 8 percent oxygen averaged over discrete twelve-hour periods. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (3)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the total reduced sulfur emission limit shall be determined in accordance with the continuous emission monitor, 40 CFR Part 60 Method 16, 16A, 16B, or 16C.	Rule 335-3-16-.05
Emission Monitoring	
1. A TRS continuous emissions monitoring system which meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 5 shall be installed, operated, calibrated, and maintained.	Rule 335-3-5-.04 (8)
2. A TRS continuous emission monitor shall be installed, calibrated, maintained and operated in accordance with 40 CFR 60.284, except that monitoring spans may be approved by the Director.	Rule 335-3-5-.04 (8)
Recordkeeping and Reporting Requirements	
1. A report of excess total reduced sulfur emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. The magnitude of excess emissions greater than 20 parts per million adjusted to 8 percent oxygen computed from twelve-hour averages (data recorded during periods of total reduced sulfur emission monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the total reduced sulfur emission monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments.	Rule 335-3-5-.04 (9)

No. 2 Recovery Furnace
Provisos

State Only Enforceable Provisos	Regulations
e. When no excess emissions have occurred and the total reduced sulfur emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	

No. 2 Smelt Tank
Informational Summary

Description: No. 2 Smelt Tank
Utilities Area

Installation Date: 1973 **Reconstruction/Modification Date:** N/A

Operating Capacity: 124,000 lb BLS/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Z012-604	No. 2 Smelt Tank	PM	$\leq$ 0.5 lb/ADTP	Rule 335-3-4-.07 (2)(b)
Z012-604	No. 2 Smelt Tank	HAPs (PM as a surrogate)	$\leq$ 0.2 lb/ton BLS	Rule 335-3-11-.06 (38)
Z012-604	No. 2 Smelt Tank	TRS	$\leq$ 0.033 lb/ton BLS	Rule 335-3-5-.04 (7)
Z012-604	No. 2 Smelt Tank	Opacity	$\leq$ 20% with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01 (1)

No. 2 Smelt Tank
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.07 (2)(b) for particulate matter from kraft pulp mill smelt tanks.	Rule 335-3-4-.07 (2)(b)
3. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
4. This source is subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart MM and 40 CFR Part 63 Subpart MM as referenced in ADEM Admin. Code 335-3-11-.06 (38)	Rule 335-3-11-.06 (1) and (38)
Emission Standards	
1. Particulate matter emissions shall not exceed 0.2 pounds per ton of black liquor solids fired and shall not exceed 0.5 pound per air-dry ton of pulp produced.	Rule 335-3-11-.06 (38) Rule 335-3-4-.07 (2)(b)
2. Opacity shall not exceed 20 percent as determined by six-minute average. During one six-minute period in any sixty minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as 40 percent.	Rule 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
2. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-1-.04
2. A continuous parameter monitoring system (CPMS) shall be properly installed, calibrated, maintained, and operated in such a way as to determine and record the scrubber liquid recirculating flow rate and scrubber differential pressure at least once every 15-mintute periods using procedures in 40 CFR 63.8 (c). • The monitoring device used for continuous measurement of the scrubber differential pressure must be certified by the manufactures to the accurate to within a gauge pressure of $\pm$ 2 inches of water. • The monitoring device used for continuous measurement of the scrubber liquid recirculating flow rate must be certified by the	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
manufacturer to be accurate within ± 5 percent of the design scrubber liquid recirculating flow rate.	
3. For particulate matter periodic monitoring, if any three-hour block average liquor firing rate is greater than 110 percent of its value set by the required complying periodic test or a complying test approved by the Department, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
4. For particulate matter periodic monitoring, if any three-hour average wet scrubber pressure drop or liquid flow rate, while liquor is being fired, is less than the average value recorded at the time of the most recent required periodic test that showed compliance or a test approved by the Department that showed compliance, with the exception of pressure drop during periods of startup and shutdown, the cause is to be investigated and appropriate corrective action is to be initiated. This unit will be in violation of 40 CFR 63.862 when six or more three-hour average flow rate or pressure drop within any 6-month reporting period are below the minimum operating limit established according to 40 CFR 63.864 (j) during times when liquor is being fired, with the exception of pressure drop during periods of startup and shutdown. For purposes of determining the number of nonopacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period.	Rule 335-3-11-.06 (38)
5. As specified in 40 CFR 63.8 (g)(5), monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high level adjustments shall not be included in any data average computed under 40 CFR Part 63 Subpart MM.	Rule 335-3-11-.06 (38)
6. For compliance with 40 CFR Part 63, Subpart MM, a particulate matter performance test shall be performed, pursuant to §63.865, every 5 years. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06 (38)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. Records of all three-hour block average liquor-firing rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
3. Records of all three-hour block average wet scrubber liquid flow rates and pressure drop shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
4. Records and supporting documentation shall be kept for the compliance determinations, operating ranges, and parameter ranges established for this unit.	Rule 335-3-11-.06 (38)
5. Since this unit is controlled by a wet scrubber, opacity periodic monitoring will be satisfied through particulate emission periodic monitoring.	Rule 335-3-16-.05
6. In accordance with 40 CFR Part 63.866 (b), the facility must maintain records of any occurrence when corrective action is required under §63.864(k)(1) (when a 3-hour average scrubber recirculation flow rate value or scrubber differential pressure is below the minimum operating limit established according to §63.864(j) during times when spent pulping liquor is fed, with the exception of scrubber differential pressure during periods of startup and shutdown), and when a violation is noted under §63.864(k)(2) (when six or more three-hour average scrubber recirculation flow rate or scrubber differential pressure values within any six-month reporting period are below the minimum operating limit established according to §63.864(j) during times when spent pulping liquor is fed). For purposes of determining the number of nonopacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period. The facility must also maintain sufficient information to estimate the quantity of each regulated pollutant emitted over the emission limit for each failure to meet an operating limit. The information must be sufficient to provide a reliable emissions estimate if requested by the Administrator.	Rule 335-3-11-.06 (38)
7. In accordance with 40 CFR 63.866(c), the facility shall maintain the following records in addition to the general records required by 40 CFR 63.10(b)(2): • Maintain records of parametric monitoring data required under 40 CFR 63.864, including any period when the three-hour average flow rate or pressure drop values were inconsistent with the levels established during the initial or subsequent performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, and the time corrective action was initiated and completed, and corrective action taken. • Maintain records and documentation of supporting calculations for compliance determination made under 40 CFR 63.865(a) through (d). • Maintain the records of the monitoring parameter ranges for the scrubber flow rates and scrubber pressure drop.	Rule 335-3-11-.06 (38)
8. In accordance with 40 CFR Part 63, Subpart MM, the facility must submit a semiannual Excess Emissions Report and/or Summary Report containing the information required in 40 CFR 63.867(c),	Rule 335-3-11-.06 (38)

Federally Enforceable Provisos	Regulations
including the number and duration of three hour averages when the flow rate or pressure drop were below the minimum operating limit during times when spent pulping liquor is fed. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is less than 1 percent of the total reporting period operating time, and CMS downtime is less than 5 percent of the total reporting period operating time, only the Summary Report is required to be submitted. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is 1 percent or greater of the total reporting period operating time, or the total CMS downtime for the reporting period is 5 percent or greater of the total reporting period operating time, or any violations according to 40 CFR 63.864(k)(2) occurred, information from both the Summary Report and Excess Emissions Report must be submitted. Excess Emissions and Summary Reports must be reported electronically via CEDRI per 40 CFR 63.867(d)(2). Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.	

No. 2 Smelt Tank
Provisos

State Only Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the requirements of ADEM Admin. Code 335-3-5-.04 (7) for total reduced sulfur from kraft pulp mill smelt tanks.	Rule 335-3-5-.04 (7)
Emission Standards	
1. Total reduced sulfur emissions shall not exceed 0.033 pounds per ton of black liquor solids. If an owner or operator demonstrates to the satisfaction of the Director that emissions in excess of the levels otherwise authorized in this regulation occur as a result of properly performed startups, shutdowns or unavoidable malfunctions these emissions will not constitute a violation.	Rule 335-3-5-.04 (7)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the total reduced sulfur emission limit shall be determined in accordance with the continuous emission monitor, 40 CFR Part 60 Method 16, 16A, or 16B.	Rule 335-3-5-.04 (7) Rule 335-3-10-.03 (1)
Emission Monitoring	
1. A total reduced sulfur emission test shall be performed at least once every 5 years to certify compliance and set periodic monitoring parameters.	Rule 335-3-16-.05
2. For total reduced sulfur periodic monitoring, if the three-hour block average wet scrubber weak wash recirculation flow rate is less than 90 percent of its average value set by the required complying periodic test or a complying test approved by the Department, the cause is to be investigated and appropriate corrective action is to be taken within 24 hours.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. A total reduced sulfur emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-16-.05
2. Records of all three-hour block average wet scrubber weak wash recirculation flow rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05

Combination Fuel Boiler
Informational Summary

Description: Combination Fuel Boiler
Utilities Area

Installation Date: 1964 **Reconstruction/Modification Date:** 1978

Operating Capacity: 294 MMBtu/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 61 Subpart E
40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Z013-601	Combination Fuel Boiler	PM	≤ 0.20 gr/dscf at 50% excess air and/or ≤ 116.4 lb/hr	Rule 335-3-4-.08 Rule 335-3-14-.04
Z013-601	Combination Fuel Boiler	Filterable PM	≤ 0.44 lb/MMBtu (0.55 lb/MMBtu of steam output)	Rule 335-3-11-.06 (107)
Z013-601	Combination Fuel Boiler	SO_2	≤ 226 lb/hr	Rule 335-3-14-.04
Z013-601	Combination Fuel Boiler	CO	≤ 268 lb/hr	Rule 335-3-14-.04
Z013-601	Combination Fuel Boiler	CO	≤ 900 ppm by volume on a dry basis corrected to 3 percent oxygen, 30-day rolling average, as measured by a CEMS	Rule 335-3-11-.06 (107)
Z013-601	Combination Fuel Boiler	HCl	≤ 0.022 lb/MMBtu (≤ 0.025 lb/MMBtu of steam output) ≤ 0.020 lb/MMBtu (0.023 lb/MMBtu of steam output) (Effective October 6, 2025)	Rule 335-3-11-.06 (107)
Z013-601	Combination Fuel Boiler	Mercury	≤ 5.7E-06 lb/MMBtu (≤ 6.4E-06 lb/MMBtu of steam output) ≤ 5.4E-06 lb/MMBtu (6.2E-06 lb/MMBtu of steam output) (Effective October 6, 2025)	Rule 335-3-11-.06 (107)
Z013-601	Combination Fuel Boiler	Mercury	≤ 3200 grams per 24-hour period	40 CFR Chapter I Subchapter C Part 61 Subpart E
Z013-601	Combination Fuel Boiler	Opacity	≤ 20% with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Wood		
Nos. 2 – 6 Fuel Oil	2.3	N/A
Natural Gas		
Paper Recycling Residuals	0.15	9.0
Dewatered Sludge	0.5	8.0
Cross Tie Fuel	0.2	2.0

Combination Fuel Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.08 for particulate matter.	Rule 335-3-4-.08
3. This source is subject to a Prevention of Significant Deterioration limitation for particulate matter, sulfur dioxide and carbon monoxide.	Rule 335-3-14-.04
4. This source is subject to the applicable requirements of 40 CFR Part 61 Subpart E for mercury and 40 CFR 61 Subpart A, General Provisions.	40 CFR Part 61 Subpart E
5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
6. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters as an existing hybrid suspension grate unit.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Particulate matter emissions shall not exceed the more stringent of either 0.20 grains per standard dry cubic foot of air adjusted to 50 percent excess air or 116.4 pounds per hour.	Rule 335-3-4-.08 Rule 335-3-14-.04
2. As a surrogate for HAPs, filterable particulate matter emissions shall not exceed 0.44 lb/MMBtu of heat input or 0.55 lb/MMBtu of steam output.	Rule 335-3-11-.06 (107)
3. Sulfur dioxide emissions shall not exceed 226 pounds per hour, twelve-hour average.	Rule 335-3-14-.04
4. Carbon monoxide emissions shall not exceed 268 pounds per hour.	Rule 335-3-14-.04
5. As a surrogate for HAPs, carbon monoxide emissions shall not exceed 900 ppm by volume on a dry basis corrected to 3% oxygen, on a 30-day rolling average.	Rule 335-3-11-.06 (107)
6. Until October 6, 2025, hydrogen chloride emissions shall not exceed 0.022 lb/MMBtu of heat input or 0.025 lb/MMBtu of steam output. Beginning October 6, 2025, hydrogen chloride emissions shall not exceed 0.020 lb/MMBtu of heat input or 0.023 lb/MMBtu of steam output according to §63.7500 and Table 2 to Subpart DDDDD of Part 63.	Rule 335-3-11-.06 (107)
7. Mercury emissions shall not exceed 3200 grams per 24-hour period.	Rule 335-3-11-.02 (4)

Combination Fuel Boiler
Provisos

Federally Enforceable Provisos	Regulations
8. Until October 6, 2025, mercury emissions shall not exceed 5.7E-06 lb/MMBtu of heat input or 6.4E-06 lb/MMBtu of steam output. Beginning October 6, 2025, mercury emissions shall not exceed 5.4E-06 lb/MMBtu of heat input or 6.2E-06 lb/MMBtu of steam output according to §63.7500 and Table 2 to Subpart DDDDD of Part 63.	Rule 335-3-11-.06 (107)
9. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
10. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Rule 335-3-11-.06 (107)
11. The standards of §63.7500 apply at all times the unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 of 40 CFR Part 63 Subpart DDDDD.	Rule 335-3-11-.06 (107)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 in Appendix A of 40 CFR 60. For compliance with 40 CFR Part 63 Subpart DDDDD, the facility must follow the procedures of §63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)
2. Compliance with the sulfur dioxide emission limit shall be determined by Reference Method 6 or 6C in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
3. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
4. Compliance with the carbon monoxide emission limit shall be determined by Reference Method 10 in Appendix A of 40 CFR Part 60 or the continuous emission monitoring system.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)
5. Compliance with the hydrogen chloride emission limit shall be determined by Reference Method 26 or 26A in Appendix A of 40 CFR Part 60. The facility must follow the procedures of §63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)
6. Compliance with the mercury emission limit shall be determined in accordance with the 40 CFR Part 60 Method 29, 30A, or 30B, or ASTM D6784. The facility must follow the procedures of §63.7520 and Tables 5 and 7 of Subpart DDDDD.	Rule 335-3-10-.03 (1) Rule 335-3-11-.06 (107)

Combination Fuel Boiler
Provisos

Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. A continuous system for monitoring sulfur dioxide shall be installed, calibrated, maintained, and operated in accordance with the requirements of 40 CFR Part 60 Appendix B Specification 2.	Rule 335-3-16-.05
3. Pursuant to 40 CFR §63.7525, a Continuous Emissions Monitoring System (CEMS) for measuring carbon monoxide (CO) shall be installed, calibrated, operated, and maintained in accordance with the requirements of 40 CFR Part 60 Appendix B Specification 4, 4A, or 4B, and Appendix F.	Rule 335-3-11-.06 (107)
4. For particulate matter periodic monitoring, if any three-hour block average steam production rate is greater than 110 percent of its average value set by the required complying periodic test or a complying test approved by the Department, the steam production rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
5. For particulate matter periodic monitoring, if any three-hour block average wet scrubber pressure drop or liquid flow rate is less than 90 percent of its respective lowest value set by the required complying periodic test or a complying test approved by the Department, investigate the cause and take corrective action within twenty-four hours.	Rule 335-3-16-.05
6. For sulfur dioxide periodic monitoring, every twelve-hour block average Continuous Emission Monitoring System readings in pounds per hour are to be taken. If an emission limit exceedance is indicated corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
7. A hydrogen chloride performance test shall be performed annually within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the hydrogen chloride emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted for hydrogen chloride every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	Rule 335-3-11-.06 (107)
8. A mercury performance test shall be performed annually within 13 months of the previous test. If performance tests for at least 2 consecutive years show that the mercury emissions are at or below 75 percent of the emission limit, and if there are no changes in the operation of the boiler or air pollution control equipment that could increase emissions, performance tests may be conducted for mercury	Rule 335-3-11-.06 (107)

Federally Enforceable Provisos	Regulations
every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.	
9. For carbon monoxide periodic monitoring, rolling thirty-day Continuous Emission Monitoring System readings in parts per million (ppm) are to be taken. If an emission limit exceedance is indicated corrective action is to be taken within twenty-four hours.	Rule 335-3-11-.06 (107)
10. Pursuant to §63.7500 (a) and Table 3, the facility must conduct a tune-up of the boiler every 5 years as specified in §63.7540 (12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.	Rule 335-3-11-.06 (107)
11. Mercury re-testing is only required if changes are made in the operation that would potentially increase emissions above the level determined by the most recent sludge test.	Rule 335-3-11-.02 (4)
12. Pursuant to §63.7500(a)(2) and Table 4, the facility shall maintain the 30-day rolling average operating load such that it does not exceed 110 percent of the highest hourly average operating load recorded during the performance test.	Rule 335-3-11-.06 (107)
13. Pursuant to 40 CFR §63.7525(e), a scrubber flow monitor shall be installed operated, and maintained pursuant to Table 4. The 30-day rolling average scrubber flow rate shall be maintained at or above the level measured during the most recent performance test.	Rule 335-3-11-.06 (107)
14. Pursuant to 40 CFR §63.7525(f), a scrubber pressure monitor shall be installed operated, and maintained pursuant to Table 4. The 30-day rolling average scrubber pressure drop shall be maintained at or above the level measured during the most recent performance test.	Rule 335-3-11-.06 (107)
15. Pursuant to §63.7530(b), the facility must conduct fuel analyses according to §63.7521 and establish maximum fuel pollutant input levels for HCl and Hg according to §63.7530(b)(1)-(2).	Rule 335-3-11-.06 (107)
16. The facility must demonstrate continuous compliance with each applicable emission limit, work practice standard, and operating limit of 40 CFR 63 Subpart DDDDD according to §63.7540(a) and Table 8.	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05
2. A record of twelve-hour average sulfur dioxide emissions in pounds per hour shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-16-.05

Combination Fuel Boiler
Provisos

Federally Enforceable Provisos	Regulations
3. The sulfur dioxide continuous emissions monitoring system shall be audited at least once per calendar quarter. A relative accuracy test audit shall be performed at least once every four calendar quarters. A cylinder gas audit may be performed in three of four calendar quarters but in no more than three quarters in succession.	Rule 335-3-16-.05
4. Records of all three-hour block average steam production rates shall be made and maintained in a form suitable for inspection for at least five years.	Rule 335-3-16-.05
5. Records of all three-hour block average wet scrubber pressure drops and liquid flow rates shall be made and maintained in a form suitable for inspection for at least five years.	Rule 335-3-16-.05
6. A record of rolling 30-day average carbon monoxide emissions in parts per million shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
7. A record of the 30-day rolling average steaming rate shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
8. A record of the 30-day rolling average scrubber flow rate shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
9. A record of the 30-day rolling average scrubber differential pressure shall be made and maintained on file available for inspection for at least five years. If an emission limit exceedance is indicated, make a note in the records and make a note of the corrective action that was taken.	Rule 335-3-11-.06 (107)
10. A site-specific monitoring plan shall be developed in accordance with 40 CFR Part 63.7505(d), kept on file, and be readily available for review.	Rule 335-3-11-.06 (107)
11. Pursuant to §63.7515(f), the facility must report the results of performance tests within 60 days after the completion of the performance tests. The report must verify the operating limits for each boiler have not changed or provide documentation of revised operating limits according to §63.7530 and Table 7.	Rule 335-3-11-.06 (107)
12. When conducting a performance test under 40 CFR §63 Subpart DDDDD, the facility must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.	Rule 335-3-11-.06 (107)

Combination Fuel Boiler
Provisos

Federally Enforceable Provisos	Regulations
13. Ths source shall submit all applicable reports required under 40 CFR §63.7550 and Table 9.	Rule 335-3-11-.06 (107)
14. This source shall maintain all applicable records required under 40 CFR §63.7555. Records must be readily available for review according to §63.10(b)(1) for a period of 5 years.	Rule 335-3-11-.06 (107)

No. 3 Power Boiler
Informational Summary

Description: No. 3 Power Boiler
Utilities Area

Installation Date: 1991 **Reconstruction/Modification Date:** N/A

Operating Capacity: 343.4 MMBtu/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart Db
40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X020-609	No. 3 Power Boiler	PM	$\leq$ 1.64 lb/hr	Rule 335-3-14-.04 (9)
X020-609	No. 3 Power Boiler	NOx	$\leq$ 0.05 lb/MMBtu and/or 17.2 lb/hr	Rule 335-3-14-.04 (9)
X020-609	No. 3 Power Boiler	SO_2	$\leq$ 0.2 lb/hr	Rule 335-3-14-.04 (9)
X020-609	No. 3 Power Boiler	CO	$\leq$ 0.09 lb/MMBtu	Rule 335-3-14-.04 (9)
X020-609	No. 3 Power Boiler	VOC	$\leq$ 3.43 lb/hr	Rule 335-3-14-.04
X020-609	No. 3 Power Boiler	Opacity	$\leq$ 20% with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Natural Gas		

No. 3 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to a Prevention of Significant Deterioration limitation for particulate matter, nitrogen dioxide, sulfur dioxide, and carbon monoxide.	Rule 335-3-14-.04 (9)
3. This source is subject to a Prevention of Significant Deterioration synthetic minor limit for volatile organic compounds.	Rule 335-3-14-.04
4. This source is subject to the applicable requirements of 40 CFR Part 60 Subpart Db and ADEM Admin. Code 335-3-10-.02 (2)(b).	Rule 335-3-10-.02 (1) and (2)(b)
5. This source is subject to the applicable requirements of ADEM Admin. Rule 335-3-4-.01 for opacity.	Rule 335-3-4-.01
6. This source is subject to 40 CFR Part 63, Subpart DDDDD – Emission Standards for Hazardous Air Pollutants for Major Sources: Commercial, Industrial, and Institutional Boilers and Process Heaters as a Gas 1 Boiler with a continuous oxygen trim system that maintains an optimum air to fuel ratio.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Particulate matter emissions shall not exceed 1.64 pound per hour.	Rule 335-3-14-.04 (9)
2. Nitrogen oxide emissions shall not exceed either 0.05 pounds per million Btu or 17.2 pound per hour while firing natural gas as measured in accordance with the nitrogen oxides continuous emissions monitoring system required pursuant to 40 CFR 60 Subpart Db.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
3. Sulfur dioxide emissions shall not exceed 0.2 pound per hour.	Rule 335-3-14-.04 (9)
4. Carbon monoxide emissions shall not exceed 0.09 pounds per million Btu.	Rule 335-3-14-.04 (9)
5. Volatile organic compound emissions shall not exceed 3.43 pounds per hour measured as carbon or other appropriate organic calibration gas.	Rule 335-3-14-.04
6. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)

No. 3 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
2. Compliance with the sulfur dioxide emission limit shall be determined by Reference Method 6 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
3. Compliance with the nitrogen oxide pounds per million Btu limit shall be determined with the continuous emission monitor based on a thirty-day rolling average. Compliance with the pound per hour emission limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 7, 7A, 7B, 7C, 7D or 7E.	Rule 335-3-10-.03 (1)
4. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
5. Compliance with the carbon monoxide emission limit shall be determined by Reference Method 10 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
6. Compliance with the volatile organic compound emission limit shall be determined by Reference Method 25, 25A, or 25 B in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
Emission Monitoring	
1. A continuous emission monitoring systems to record the nitrogen oxides and oxygen shall be installed, calibrated, maintained, and operated in accordance with 40 CFR 60, Subpart Db, 60.48b(e). The continuous emission monitoring systems shall be subject to the quality control and quality assurance requirements of 40 CFR Part 60 Appendix B Specification 2 and Appendix F.	Rule 335-3-10-.02 (2)(b)
2. The NO_x CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	Rule 335-3-10-.02 (2)(b)
3. The nitrogen oxide continuous emission monitoring system shall be audited at least once per calendar quarter. A relative accuracy test audit shall be performed at least once every four calendar quarters. A cylinder gas audit may be performed in three of four calendar quarters but in no more than three quarters in succession.	Rule 335-3-10-.03 (3)
4. A carbon monoxide and volatile organic compound emission test shall be performed at least once during the current five year permitting cycle.	Rule 335-3-16-.05
5. For carbon monoxide and volatile organic compounds periodic monitoring, if any three-hour block average fuel firing rate is 110 percent of the average fuel firing rate set by the required complying periodic test or a complying carbon monoxide or volatile organic compound emission test approved by the Department, the fuel firing rate is to be lowered until compliance is successfully demonstrated at the higher rate. If any three-hour block average oxygen furnace percentage is less than seventy-five percent of the average oxygen	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
percentage set by the required complying periodic test or a complying carbon monoxide or volatile organic compound emission test approved by the Department, the oxygen percentage is to be raised until compliance is successfully demonstrated at the lower rate.	
6. Pursuant to §63.7500 (a) and Table 3, the facility must conduct a tune-up of the boiler every 5 years as specified in §63.7540 (12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.	Rule 335-3-11-.06 (107)
7. For sulfur dioxide periodic monitoring obtain natural gas vendor certification of sulfur in fuel once per year.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. The nitrogen oxide continuous emission monitoring system audit report shall be submitted to the Department within thirty days of the end of each calendar quarter.	Rule 335-3-16-.05
2. In accordance to the requirements of 40 CFR 60.49(g) of NSPS, Subpart Db, the owner or operator of an affected facility subject to the NO_X standards under 40 CFR 60.44b shall maintain records of the following information for each steam generating unit operating day: a. Calendar date; b. The average hourly NO_X emission rates (expressed as NO_2) (ng/J or lb/MMBtu heat input) measured or predicted; c. The 30-day average NO_X emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; d. Identification of the steam generating unit operating days when the calculated 30-day average NO_X emission rates are in excess of the NO_X emissions standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; e. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; g. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; h. Identification of the times when the pollutant concentration exceeded full span of the CEMS;	Rule 335-3-10-.02 (2)(b)

No. 3 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
i. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and j. Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	
3. The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only natural gas shall obtain and maintain at the affected facility fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that gaseous fuel meets the definition of natural gas as defined in 40 CFR 60.41b for a period of 2 years following the date of such record.	Rule 335-3-10-.02 (2)(b)
4. The NO_x emission rate shall be determined each day in lb/MMBtu and shall calculate a 30-day rolling average emission rate on a daily basis.	Rule 335-3-10-.02 (2)(b)
5. A carbon monoxide and volatile organic compound emission test report shall be submitted to the Department at least once during the current five year permitting cycle.	Rule 335-3-16-.05
6. Records of all fuel firing rate and oxygen furnace percentage three-hour block averages shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
7. A report of excess nitrogen oxide emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a. The magnitude of excess emissions greater than 0.05 pounds per million Btu computed on a 30 day rolling average (data recorded during periods of nitrogen oxide emission monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b. The date and time of commencement and completion of each time period of excess emissions. c. The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d. The date and time identifying each period during which the nitrogen oxide emission monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e. When no excess emissions have occurred and the nitrogen oxide emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-16-.05
8. This source shall submit a 5-year compliance report documenting the required tune-ups, as specified in 40 CFR 63.7550(c)(1). The report must be postmarked or submitted no later than January 31.	Rule 335-3-11-.06 (107)

No. 3 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
9. Natural gas sulfur content records shall be maintained on file available for inspection for at least five years.	Rule 335-3-16-.05

No. 4 Power Boiler
Informational Summary

Description: No. 4 Power Boiler
Utilities Area

Installation Date: 1995 **Reconstruction/Modification Date:** N/A

Operating Capacity: 346.4 MMBtu/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart Db
40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X025-610	No. 4 Power Boiler	PM	$\leq$ 0.005 lb/MMBtu	Rule 335-3-14-.04 (9)
X025-610	No. 4 Power Boiler	NOx	$\leq$ 0.05 lb/MMBtu or $\leq$ 17.32 lb/hr	Rule 335-3-14-.04 (9)
X025-610	No. 4 Power Boiler	SO_2	$\leq$ 0.6 lb/MM ft^3 natural gas	Rule 335-3-14-.04 (9)
X025-610	No. 4 Power Boiler	CO	$\leq$ 0.09 lb/MMBtu	Rule 335-3-14-.04 (9)
X025-610	No. 4 Power Boiler	VOC	$\leq$ 0.01 lb/MMBtu	Rule 335-3-14-.04 (9)
X025-610	No. 4 Power Boiler	Opacity	$\leq$ 20% with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Natural Gas		

No. 4 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to a Prevention of Significant Deterioration Best Available Control Technology limitation for particulate matter, nitrogen dioxide, sulfur dioxide, carbon monoxide and volatile organic compounds.	Rule 335-3-14-.04 (9)
3. This source is subject to the applicable requirements of 40 CFR Part 60 Subpart Db and ADEM Admin. Code 335-3-10-.02 (2)(b).	Rule 335-3-10-.02 (1) and (2)(b)
4. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
5. This source is subject to 40 CFR Part 63, Subpart DDDDD – Emission Standards for Hazardous Air Pollutants for Major Sources: Commercial, Industrial, and Institutional Boilers and Process Heaters as a Gas 1 Boiler with a continuous oxygen trim system that maintains an optimum air to fuel ratio.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Particulate matter emissions shall not exceed 0.005 pounds per million Btu.	Rule 335-3-14-.04 (9)
2. Nitrogen oxide emissions shall not exceed either 0.05 pounds per million Btu while firing natural gas as measured in accordance with the nitrogen oxides continuous emissions monitoring system required pursuant to 40 CFR 60 Subpart Db or 17.32 pound per hour.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
3. Sulfur dioxide emissions shall not exceed 0.60 lb/MM ft^3 natural gas.	Rule 335-3-14-.04 (9)
4. Carbon monoxide emissions shall not exceed 0.09 pounds per million Btu.	Rule 335-3-14-.04 (9)
5. Volatile organic compound emissions shall not exceed 0.01 pounds per million Btu measured as carbon or other appropriate organic calibration gas.	Rule 335-3-14-.04 (9)
6. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)

No. 4 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
2. Compliance with the sulfur dioxide emission limit shall be determined by Reference Method 6 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
3. Compliance with the nitrogen oxide pounds per million Btu limit shall be determined with the continuous emission monitor based on a thirty-day rolling average. Compliance with the pound per hour emission limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 7, 7A, 7B, 7C, 7D or 7E.	Rule 335-3-10-.03 (1)
4. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
5. Compliance with the carbon monoxide emission limit shall be determined by with the continuous emission monitor or Reference Method 10 in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
6. Compliance with the volatile organic compound emission limit shall be determined by Refence Method 25, 25A, or 25B in Appendix A of 40 CFR Part 60.	Rule 335-3-10-.03 (1)
Emission Monitoring	
1. A continuous emission monitoring systems to record the nitrogen oxides shall be installed, calibrated, maintained, and operated in accordance with 40 CFR 60, Subpart Db, 60.48b(e). The continuous emission monitoring systems shall be subject to the quality control and quality assurance requirements of 40 CFR Part 60 Appendix B Specification 2 and Appendix F.	Rule 335-3-10-.02 (2)(b)
2. The NOx CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	Rule 335-3-10-.02 (2)(b)
3. The nitrogen oxide and carbon monoxide continuous emission monitoring systems shall be audited at least once per calendar quarter. A relative accuracy test audit shall be performed at least once every four calendar quarters. A cylinder gas audit may be performed in three of four calendar quarters but in no more than three quarters in succession.	Rule 335-3-10-.03 (3)
4. The CO and O_2 CEMS shall be operated and data recorded according to the Procedure 1 of Part 60 Appendix F.	Rule 335-3-10-.03 (3)
5. A volatile organic compound emission test shall be performed at least once during the current five year permitting cycle.	Rule 335-3-16-.05
6. For volatile organic compounds periodic monitoring, if any three-hour block average fuel firing rate is greater than 110 percent of the average fuel firing rate set by the required complying periodic test or a complying volatile organic compound emission test approved by the	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
Department, the fuel firing rate is to be lowered until compliance is successfully demonstrated at the higher rate.	
7. Pursuant to §63.7500 (a) and Table 3, the facility must conduct a tune-up of the boiler every 5 years as specified in §63.7540 (12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.	Rule 335-3-11-.06 (107)
8. For sulfur dioxide periodic monitoring obtain natural gas vendor certification of sulfur in fuel once per year.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. The nitrogen oxide and carbon monoxide continuous emission monitoring system audit reports shall be submitted to the Department within thirty days of the end of each calendar quarter.	Rule 335-3-16-.05
2. In accordance to the requirements of 40 CFR 60.49 (g) of NSPS, Subpart Db, the owner or operator of an affected facility subject to the NO_X standards under 40 CFR 60.44b shall maintain records of the following information for each steam generating unit operating day: a. Calendar date; b. The average hourly NO_X emission rates (expressed as NO_2) (ng/J or lb/MMBtu heat input) measured or predicted; c. The 30-day average NO_X emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; d. Identification of the steam generating unit operating days when the calculated 30-day average NO_X emission rates are in excess of the NO_X emissions standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; e. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; g. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; h. Identification of the times when the pollutant concentration exceeded full span of the CEMS; i. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and	Rule 335-3-10-.02 (2)(b)

No. 4 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
j. Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	
3. The NO_x emission rate shall be determined each day in lb/MMBtu and shall calculate a 30-day rolling average emission rate on a daily basis.	Rule 335-3-10-.02 (2)(b)
4. A thirty-day rolling average carbon monoxide continuous emission monitor report shall be recorded and maintained on file for at least five years.	Rule 335-3-16-.05
5. Records of all fuel firing rate three-hour block averages shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
6. A report of excess nitrogen oxide emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information: a) The magnitude of excess emissions greater than 0.05 pounds per million Btu computed on a 30 day rolling average (data recorded during periods of nitrogen oxide emission monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b) The date and time of commencement and completion of each time period of excess emissions. c) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d) The date and time identifying each period during which the nitrogen oxide emission monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e) When no excess emissions have occurred and the nitrogen oxide emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	Rule 335-3-16-.05
7. A volatile organic compound emission test report shall be submitted to the Department at least once during the current five year permitting cycle.	Rule 335-3-16-.05
8. This source shall submit a 5-year compliance report documenting the required tune-ups, as specified in 40 CFR 63.7550(c)(1). The report must be postmarked or submitted no later than January 31.	Rule 335-3-11-.06 (107)
9. Natural gas sulfur content records shall be maintained on file available for inspection for at least five years.	Rule 335-3-16-.05

No. 5 Power Boiler
Informational Summary

Description: No. 5 Power Boiler
Utilities Area

Installation Date: 1997 **Reconstruction/Modification Date:** N/A

Operating Capacity: 346.4 MMBtu/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart Db
40 CFR Part 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X029-611	No. 5 Power Boiler	PM	$\leq$ 0.12 lb/MMBtu	Rule 335-3-4-.03
X029-611	No. 5 Power Boiler	NOx	$\leq$ 0.05 lb/MMBtu or 17.32 lb/hr	Rule 335-3-14-.04 (9)
X029-611	No. 5 Power Boiler	CO	$\leq$ 0.09 lb/MMBtu	Rule 335-3-14-.04 (9)
X029-611	No. 5 Power Boiler	Opacity	$\leq$ 20% with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Natural Gas		

No. 5 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to a Prevention of Significant Deterioration best available control technology limitation for nitrogen dioxide and carbon monoxide.	Rule 335-3-14-.04 (9)
3. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.03 for particulate matter.	Rule 335-3-4-.03
4. This source is subject to the applicable requirements of 40 CFR Part 60 Subpart Db and ADEM Admin. Code 335-3-10-.02 (2)(b).	Rule 335-3-10-.02 (1) and (2)(b)
5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
6. This source is subject to 40 CFR Part 63, Subpart DDDDD – Emission Standards for Hazardous Air Pollutants for Major Sources: Commercial, Industrial, and Institutional Boilers and Process Heaters as a Gas 1 Boiler with a continuous oxygen trim system that maintains an optimum air to fuel ratio.	Rule 335-3-11-.06 (1) and (107)
Emission Standards	
1. Particulate matter emissions shall not exceed 0.12 pounds per million Btu.	Rule 335-3-4-.03
2. Nitrogen oxide emissions shall not exceed either 0.05 pounds per million Btu or 17.32 pound per hour while firing natural gas as measured in accordance with the nitrogen oxides continuous emissions monitoring system required pursuant to 40 CFR 60 Subpart Db.	Rule 335-3-10-.02 (2)(b) Rule 335-3-14-.04 (9)
3. Carbon monoxide emissions shall not exceed 0.09 pounds per million Btu.	Rule 335-3-14-.04 (9)
4. Opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Compliance with the nitrogen oxide pounds per million Btu limit shall be determined with the continuous emission monitor based on a thirty-day rolling average. Compliance with the pound per hour emission limit shall be determined in accordance with 40 CFR Part 60 Appendix A Method 7, 7A, 7B, 7C, 7D or 7E.	Rule 335-3-10-.03 (1)
2. Compliance with the opacity standard for this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)

No. 5 Power Boiler
Provisos

Federally Enforceable Provisos	Regulations
3. Compliance with the carbon monoxide emission limit shall be determined by Reference Method 10 in Appendix A of 40 CFR Part 60 Method 10.	Rule 335-3-10-.03 (1)
4. Compliance with the particulate matter emission rates of this unit shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60.	Rule 335-3-10-.03 (1)
Emission Monitoring	
1. A continuous emission monitoring systems to record the nitrogen oxides shall be installed, calibrated, maintained, and operated in accordance with 40 CFR 60, Subpart Db, 60.48b(e). The continuous emission monitoring systems shall be subject to the quality control and quality assurance requirements of 40 CFR Part 60 Appendix B Specification 2 and Appendix F.	Rule 335-3-10-.02 (2)(b)
2. The NOx CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	Rule 335-3-10-.02 (2)(b)
3. The nitrogen oxide continuous emission monitoring system shall be audited at least once per calendar quarter. A relative accuracy test audit shall be performed at least once every four calendar quarters. A cylinder gas audit may be performed in three of four calendar quarters but in no more than three quarters in succession.	Rule 335-3-10-.03 (3)
4. A continuous emission monitoring system for the measurement of carbon monoxide and oxygen shall be installed, operated and maintained.	Rule 335-3-16-.05
5. The CO and O_2 CEMS shall be operated and data recorded according to the Procedure 1 of Part 60 Appendix F.	Rule 335-3-10-.03 (3)
6. Pursuant to §63.7500 (a) and Table 3, the facility must conduct a tune-up of the boiler every 5 years as specified in §63.7540 (12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.	Rule 335-3-11-.06 (107)
Recordkeeping and Reporting Requirements	
1. The nitrogen oxide continuous emission monitoring system audit report shall be submitted to the Department within thirty days of the end of each calendar quarter.	Rule 335-3-16-.05
2. In accordance to the requirements of 40 CFR 60.49(g) of NSPS, Subpart Db, the owner or operator of an affected facility subject to the NO_X standards under 40 CFR 60.44b shall maintain records of the following information for each steam generating unit operating day:	Rule 335-3-10-.02 (2)(b)
a. Calendar date;	

Federally Enforceable Provisos	Regulations
b. The average hourly NO_X emission rates (expressed as NO_2) (ng/J or lb/MMBtu heat input) measured or predicted; c. The 30-day average NO_X emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; d. Identification of the steam generating unit operating days when the calculated 30-day average NO_X emission rates are in excess of the NO_X emissions standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; e. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; g. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; h. Identification of the times when the pollutant concentration exceeded full span of the CEMS; i. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and j. Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	
3. The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only natural gas shall obtain and maintain at the affected facility fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that gaseous fuel meets the definition of natural gas as defined in 40 CFR 60.41b for a period of 2 years following the date of such record.	Rule 335-3-10-.02 (2)(b)
4. The NO_x emission rate shall be determined each day in lb/MMBtu and shall calculate a 30-day rolling average emission rate on a daily basis.	Rule 335-3-10-.02 (2)(b)
5. A thirty-day rolling average carbon monoxide continuous emission monitor report shall be recorded and maintained on file for at least five years.	Rule 335-3-16-.05
6. A report of excess nitrogen oxide emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information:	Rule 335-3-16-.05

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a) The magnitude of excess emissions greater than 0.05 pounds per million Btu computed on a 30 day rolling average (data recorded during periods of nitrogen oxide emission monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). b) The date and time of commencement and completion of each time period of excess emissions. c) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. d) The date and time identifying each period during which the nitrogen oxide emission monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. e) When no excess emissions have occurred and the nitrogen oxide emission monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	
7. This source shall submit a 5-year compliance report documenting the required tune-ups, as specified in 40 CFR 63.7550(c)(1). The report must be postmarked or submitted no later than January 31.	Rule 335-3-11-.06 (107)

Pulping System Processes
Informational Summary

Description: Pulping System Processes

Installation Date: N/A **Reconstruction/Modification Date:** N/A

Operating Capacity: N/A

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S443	1. Pulping System Processes LVHC, Batch Digester Systems, Multiple Effect Evaporator System, Turpentine Recovery System and Condensate Collection System. 2. Pulping System Processes HVLC, Brown Stock Washer System	HAPs	Equipment systems shall be enclosed and vented into a closed-vent system and routed to a control device.	Rule 335-3-11-.06 (18)
S443	1. Pulping System Processes LVHC, Batch Digester Systems, Multiple Effect Evaporator System, Turpentine Recovery System and Condensate Collection System. 2. Pulping System Processes HVLC, Brown Stock Washer System	HAPs	The enclosures and closed-vent system shall meet the requirements specified in the Enclosures and Closed-Vent Systems Emission Standards Provisos 2-4.	Rule 335-3-11-.06 (18)

Pulping System Processes
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Air Pollutants General Provisions as provided for in Table 1 of Subpart S and 40 CFR Part 63 Subpart S.	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. For Digesters 1-6, Multiple Effect Evaporators, and Turpentine Recovery System, per the requirements of 40 CFR Part 63 Subpart S; Low Volume High Concentration Gases (LVHC) shall be controlled by incineration in either the Combination Boiler or the Lime Kiln.	Rule 335-3-11-.06 (18)
2. For the Brown Stock Washer system, per the requirements of 40 CFR Part 63 Subpart S, High Volume Low Concentration Gases (HVLC) shall be controlled by incineration in either the Combination Boiler or the Lime Kiln.	Rule 335-3-11-.06 (18)
3. Periods of excess emissions reported under 40 CFR Part 63.455 shall not be a violation of 40 CFR Part 63.443 (c) and (d) provided that the time of excess emissions divided by the total process operating time in a semi-annual reporting period does not exceed the following levels: a) One percent for control devices used to reduce the total HAP emissions from the LVHC system; and b) Four percent for control devices used to reduce the total HAP emissions from the HVLC system; and c) Four percent for control devices used to reduce the total HAP emissions from both the LVHC and HVLC systems.	Rule 335-3-11-.06 (18)
4. Equipment systems listed in provisos 1 and 2 of this section shall be enclosed and vented into a closed-vent system and routed to a control device that meets the requirements specified in the Emission Standards Provisos 2 - 4 of the Enclosures and Closed-Vent Systems Emission section of this permit which may be found on Page 16-2.	Rule 335-3-11-.06 (18)
5. The control device used to reduce total HAP emissions from each equipment system listed in provisos 1 and 2 of this section shall either or both: a) Reduce total HAP emissions using a boiler, lime kiln or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone. b) Reduce total HAP emissions using a boiler with heat input capacity greater than 150 million Btu per hour by introducing the HAP emission stream with the combustion air.	Rule 335-3-11-.06 (18)

Pulping System Processes
Provisos

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Compliance and Performance Test Methods and Procedures	
1. See Compliance and Performance Test Methods and Procedures Section of the Enclosures and Closed-Vent Systems provisos for details.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. See Emission Monitoring provisos of the Enclosures and Closed-Vent Systems provisos for details.	Rule 335-3-11-.06 (18)
Recordkeeping and Reporting Requirements	
1. HVLC sources shall meet the Recordkeeping and Reporting Requirements section of the Enclosures and Closed-Vent Systems provisos.	Rule 335-3-11-.06 (18)
2. LVHC sources such as the Digesters 1-6, Multiple Effect Evaporator System, and Turpentine Recovery System and each applicable enclosure opening, closed-vent system, and closed collection system, shall meet the Recordkeeping and Reporting Requirements section of the Enclosures and Closed-Vent Systems provisos.	Rule 335-3-11-.06 (18)

Process Condensates
Informational Summary

Description: Process Condensates

Installation Date: N/A **Reconstruction/Modification Date:** N/A

Operating Capacity: N/A

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S446	Process Condensates, 1. Each digester system 2. Each turpentine recovery system 3. Each evaporator system for each stage where weak liquor is introduced a. The vapors from each stage where weak liquor is introduced (feed stages); and b. Each evaporator vacuum system for each stage where weak liquor is introduced (feed stages) 4. Each HVLC collection system 5. Each LVHC collection system.	HAPs	Collect the pulping process condensates from equipment systems in this section that total contain a total HAP mass of 3.6 kilograms or more of total HAP per megagram (7.2 pounds per ton) of ODP	Rule 335-3-11-.06 (18)
S446	Process Condensates	HAPs	Treat pulping process to remove 3.3 kilograms or more of total HAP per megagram (6.6 pounds per ton) of ODP	Rule 335-3-11-.06 (18)
S446	Process Condensates	HAPs	The pulping process condensates from the equipment systems listed in this section shall be conveyed in a closed collection system that is designed and operated to meet the	Rule 335-3-11-.06 (18)

Process Condensates
Provisos

			requirements specified in 40 CFR 63.446(d)	
S446	Process Condensates	HAPs	The enclosures and closed-vent system shall meet the requirements specified in 40 CFR 63.450	Rule 335-3-11-.06 (18)

Process Condensates
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 40 CFR Part 63 Subpart S.	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. The combined pulping process condensates that in total contain a total HAP mass of 3.6 kilograms or more of total HAP per megagram (7.2 pounds per ton) of ODP shall be controlled as specified in 40 CFR 63.446(d) and (e).	Rule 335-3-11-.06 (18)
2. The pulping process condensates from the equipment systems in this section shall be conveyed in a closed collection system that is designed and operated to meet the requirements specified in bullets (a) and (b) of this section. a. Each closed collection system shall meet the individual drain system requirements specified in 40 CFR 63.960, 63.961, and 63.962 of subpart RR of this part, except for closed vent systems and control devices shall be designed and operated in accordance with 40 CFR 63.443(d) and 63.450, instead of in accordance with 40 CFR 63.693 as specified in 40 CFR 63.962 (a)(3)(ii), (b)(3)(ii)(A), and (b)(3)(ii)(B)(5)(iii); b. If a condensate tank is used in the closed collection system, the tank shall meet the following requirements: (i) The fixed roof and all openings (e.g., access hatches, sampling ports, gauge wells) shall be designed and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million above background, and vented into a closed-vent system that meets the requirements in 40 CFR 63.450 and routed to a control device that meets the requirements in 40 CFR 63.443(d); and (ii) Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that the tank contains pulping process condensates or any HAP removed from a pulping process condensate stream except when it is necessary to use the opening for sampling, removal, or for equipment inspection, maintenance, or repair.	Rule 335-3-11-.06 (18)
3. Each HAP removed from a pulping process condensate stream during treatment and handling under this section shall be discharged below the liquid surface of a biological treatment system and treated to meet the requirements specified in 40 CFR 63.446 (e)(3), (4), or (5) and total HAP shall be measured as specified 40 CFR 63.457(g).	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
4. At mills that do not perform bleaching, treat the pulping process condensates to remove 6.6 pounds or more of total HAP per ton of ODP, or achieve a total HAP concentration of 210 parts per million or less by weight at the outlet of the control device.	Rule 335-3-11-.06 (18)
Compliance and Performance Test Methods and Procedures	
1. At initial performance test is required by one of the procedures to determine total HAP or methanol in liquid samples described in 40 CFR 63.457.	Rule 335-3-11-.06 (18)
2. For the closed-vent system, see the Compliance and Performance Test Methods and Procedures provisos for Enclosures and Closed-Vent Systems.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. A continuous monitoring system (CMS, as defined in 40 CFR Part 63, Subpart A, General Provisions 63.2) shall be installed, calibrated, certified, operated, and maintained according to the manufacturer's specifications. The CMS shall include a continuous recorder.	Rule 335-3-11-.06 (18)
2. A CMS shall be operated to measure the appropriate parameters determined according to the procedures specified in proviso 4 of this section to comply with the condensate applicability requirements specified in 40 CFR 63.446(c).	Rule 335-3-11-.06 (18)
3. Each owner or operator using an open biological treatment system to comply with 40 CFR 63.446(e)(2) shall perform the daily monitoring procedures specified in either paragraph 3(a) or (b) of this section and shall conduct a performance test each quarter using the procedures specified in paragraph 3(c) of this section. a. Comply with the monitoring and sampling requirements specified in paragraphs (a)(i) and (ii) of this section. i. On a daily basis, monitor the following parameters for each open biological treatment unit: A. Composite daily sample of outlet soluble BOD5 concentration to monitor for maximum daily and maximum monthly average; B. Mixed liquor volatile suspended solids; C. Horsepower of aerator unit(s); D. Inlet liquid flow; and E. Liquid temperature. ii. If the Inlet and Outlet Concentration Measurement Procedure (Procedure 3) in appendix C of 40 CFR Part 63 is used to determine the fraction of HAP compounds degraded in the biological treatment system as specified in 40 CFR 63.457(l), conduct the sampling and archival requirements specified in paragraphs 3(a)(ii)(A) and (B) of this section. A. Obtain daily inlet and outlet liquid grab samples from each biological treatment unit to have HAP data available to perform quarterly performance tests	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
specified in paragraph 3(c) of this section and the compliance tests specified in proviso 6 of this section. B. Store the samples as specified in 40 CFR 63.457(n) until after the results of the soluble BOD5 test required in paragraph 3(a)(i)(A) of this section are obtained. The storage requirement is needed since the soluble BOD5 test requires 5 days or more to obtain results. If the results of the soluble BOD5 test are outside of the range established during the initial performance test, then the archive sample shall be used to perform the mass removal or percent reduction determinations. b. As an alternative to the monitoring requirements of paragraph 3(a) of this section, conduct daily monitoring of the site-specific parameters established according to the procedures specified in proviso 4 of this section. c. Conduct a performance test as specified in 40 CFR 63.457(l) within 45 days after the beginning of each quarter and meet the applicable emission limit in 40 CFR 63.446(e)(2).	
4. To establish or reestablish, the value for each operating parameter required to be monitored by this section or to establish appropriate parameters for proviso 3(b) of this section, each owner or operator shall use the following procedures" a. During the initial performance test required in 40 CFR 63.457(a) or any subsequent performance test, continuously record the operating parameter; b. Determinations shall be based on the control performance and parameter data monitored during the performance test, supplemented if necessary by engineering assessments and the manufacturer's recommendations; c. The owner or operator shall provide for the Administrator's approval the rationale for selecting the monitoring parameters necessary to comply with provisos 2 of this section; and d. Provide for the Administrator's approval the rationale for the selected operating parameter value, and monitoring frequency, and averaging time. Include all data and calculations used to develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the applicable emission standard.	Rule 335-3-11-.06 (18)
5. Each owner or operator of a control device subject to the monitoring provisions of this section shall operate the control device in a manner consistent with the minimum or maximum (as appropriate) operating parameter value or procedure required to be monitored under provisos 1 through 4 of this section and established under this subpart. Except as provided in proviso 6 of this section, 40 CFR 63.443(e), or 63.446(g), operation of the control device below minimum operating parameter values or above maximum operating parameter values established under this subpart or failure to perform procedures	Rule 335-3-11-.06 (18)

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required by this subpart shall constitute a violation of the applicable emission standard of this subpart and be reported as a period of excess emissions.	
6. The procedures of this paragraph apply to each owner or operator of an open biological treatment system complying with proviso 3 of this section whenever a monitoring parameter excursion occurs, and the owner or operator chooses to conduct a performance test to demonstrate compliance with the applicable emission limit. A monitoring parameter excursion occurs whenever the monitoring parameters specified in paragraphs (a)(i)(A) through (C) of this section or any of the monitoring parameters specified in paragraph (b) of this section are below minimum operating parameter values or above maximum operating parameter values established in proviso 4 of this section. a. As soon as practical after the beginning of the monitoring parameter excursion, the following requirements shall be met: i. Before the steps in paragraph 6(a)(ii) or (iii) of this section are performed, all sampling and measurements necessary to meet the requirements in paragraph 6(b) of this section shall be conducted. ii. Steps shall be taken to repair or adjust the operation of the process to end the parameter excursion period. iii. Steps shall be taken to minimize total HAP emissions to the atmosphere during the parameter excursion period. b. A parameter excursion is not a violation of the applicable emission standard if the results of the performance test conducted using the procedures in this paragraph demonstrate compliance with the applicable emission limit in 40 CFR 63.446(e)(2). i. Conduct a performance test as specified in 40 CFR 63.457 using the monitoring data specified in proviso 3(a) or (b) of this section that coincides with the time of the parameter excursion. No maintenance or changes shall be made to the open biological treatment system after the beginning of a parameter excursion that would influence the results of the performance test. ii. If the results of the performance test specified in paragraph 6(b)(i) of this section demonstrate compliance with the applicable emission limit in 40 CFR 63.446(e)(2), then the parameter excursion is not a violation of the applicable emission limit. iii. If the results of the performance test specified in paragraph 6(b)(i) of this section do not demonstrate compliance with the applicable emission limit in 40 CFR 63.446(e)(2) because the total HAP mass entering the open biological treatment system is below the level needed to demonstrate compliance with the applicable emission limit in 40 CFR	Rule 335-3-11-.06 (18)

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63.446(e)(2), then the owner or operator shall perform the following comparisons: A. If the value of fbio (MeOH) determined during the performance test specified in paragraph 6(b)(i) of this section is within the range of values established during the initial and subsequent performance tests approved by the Administrator, then the parameter excursion is not a violation of the applicable standard. B. If the value of fbio (MeOH) determined during the performance test specified in paragraph 6(2)(i) of this section is not within the range of values established during the initial and subsequent performance tests approved by the Administrator, then the parameter excursion is a violation of the applicable standard. iv. The results of the performance test specified in paragraph 6(b)(i) of this section shall be recorded as specified in 40 CFR 63.454(f). c. If an owner or operator determines that performing the required procedures under paragraph 6(b) of this section for a non-thoroughly mixed open biological system would expose a worker to dangerous, hazardous, or otherwise unsafe conditions, all of the following procedures shall be performed: i. Calculate the mass removal or percent reduction value using the procedures specified in 40 CFR 63.457(l) except the value for fbio (MeOH) shall be determined using the procedures in appendix E to this part. ii. Repeat the procedures in paragraph 6(c)(i) of this section for every day until the unsafe conditions have passed. iii. A parameter excursion is a violation of the standard if the percent reduction or mass removal determined in paragraph 6(c)(i) of this section is less than the percent reduction or mass removal standards specified in 40 CFR 63.446(e)(2), as appropriate, unless the value of fbio (MeOH) determined using the procedures in appendix E of this section, as specified in paragraph 6(c)(i), is within the range of fbio (MeOH) values established during the initial and subsequent performance tests previously approved by the Administrator. iv. The determination that there is a condition that exposes a worker to dangerous, hazardous, or otherwise unsafe conditions shall be documented according to requirements in 40 CFR 63.454(e) and reporting in 40 CFR 63.455(f). v. The requirements of paragraphs 6(a) and (b) of this section shall be performed and met as soon as practical but no later than 24 hours after the conditions have passed that exposed a worker to dangerous, hazardous, or otherwise unsafe conditions.	

Process Condensates
Provisos

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. For the pulping process condensates from the equipment systems of this section per the requirements of 40 CFR 63.446 the permittee shall meet the Recordkeeping and Reporting Requirements section of the Enclosures and Closed-Vent Systems provisos.	Rule 335-3-11-.06 (18)
2. For each applicable enclosure opening, closed-vent system, and closed collection system, the owner or operator shall meet the Recordkeeping and Reporting Requirements section of the Enclosures and Closed-Vent Systems provisos.	Rule 335-3-11-.06 (18)
3. The owner or operator shall record and report the CMS parameters specified in 40 CFR 63.453 and meet the requirements specified in the Recordkeeping and Reporting Requirements section of the Enclosures and Closed-Vent Systems Proviso Number 1 for any new affected process equipment or pulping process condensate stream that becomes subject to the standards in this subpart due to a process change or modification.	Rule 335-3-11-.06 (18)
4. The owner or operator of an open non-thoroughly mixed biological treatment system complying with 40 CFR 63.453(p)(3) instead of 40 CFR 63.453(p)(2) shall prepare a written record identifying the specific conditions that would expose a worker to dangerous, hazardous, or otherwise unsafe conditions. The record must include a written explanation of the specific reason(s) why a worker would not be able to perform the sampling and test procedures specified in 40 CFR 63.457(l).	Rule 335-3-11-.06 (18)
5. The owner or operator of an open biological treatment system complying with 40 CFR 63.453(p) shall prepare a written record specifying the results of the performance test specified in 40 CFR 63.453(p)(2).	Rule 335-3-11-.06 (18)
6. If the owner or operator uses the results of the performance test required in 40 CFR 63.453(p)(2) to revise the approved values or ranges of the monitoring parameters specified in 40 CFR 63.453(j)(1) or (2), the owner or operator shall submit an initial notification of the subsequent performance test to the Administrator as soon as practicable, but no later than 15 days, before the performance test required in 40 CFR 63.453(p)(2) is scheduled to be conducted. The owner or operator shall notify the Administrator as soon as practicable, but no later than 24 hours, before the performance test is scheduled to be conducted to confirm the exact date and time of the performance test.	Rule 335-3-11-.06 (18)
7. To comply with the open biological treatment system monitoring provisions of 40 CFR 63.453(p)(3), the owner or operator shall notify the Administrator as soon as practicable of the onset of the dangerous, hazardous, or otherwise unsafe conditions that did not allow a compliance determination to be conducted using the sampling and test procedures in 40 CFR 63.457(l). The notification shall occur no later	Rule 335-3-11-.06 (18)

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than 24 hours after the onset of the dangerous, hazardous, or otherwise unsafe conditions and shall include the specific reason(s) that the sampling and test procedures in 40 CFR 63.457(l) could not be performed.	

Enclosures and Closed-Vent Systems
Informational Summary

Description: Enclosures and Closed-Vent Systems

Installation Date: N/A **Reconstruction/Modification Date:** N/A

Operating Capacity: N/A

Operating Schedule: N/A

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S450	Enclosures and Closed-Vent Systems	HAPs	Each enclosure shall maintain negative pressure at each enclosure or hood opening. Each enclosure or hood opening closed during the initial performance test shall be maintained in the same closed and sealed position at all times except for sampling, inspection, maintenance, or repairs. Each component of the closed-vent that is operated at positive pressure and located prior to a control device shall be designed for and operated with no detectable leaks as indicated by an instrument reading of less than 500 ppm by volume above background.	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and 40 CFR Part 63 Subpart S.	Rule 335-3-11-.06 (1) and (18)
Emission Standards	
1. For Digesters 1-6, Multiple Effect Evaporators, Turpentine Recovery system, HVLC collection system, LVHC collection system and the pulp bleaching system meet the requirements as specified in provisos 2 through 4 of this section.	Rule 335-3-11-.06 (18)
2. Each enclosure shall maintain negative pressure at each enclosure or hood opening as demonstrated by the procedures specified in 40 CFR 63.457(e). Each enclosure or hood opening closed during the initial performance test specified in 40 CFR 63.457(a) shall be maintained in the same closed and sealed position as during the performance test at all times except when necessary to use the opening for sampling, inspection, maintenance, or repairs.	Rule 335-3-11-.06 (18)
3. Each component of the closed-vent system used to comply with 40 CFR 63.443(c), 63.444(b), and 63.445(b) that is operated at positive pressure and located prior to a control device shall be designed for and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million by volume above background, as measured by the procedures specified in 40 CFR 63.457(d).	Rule 335-3-11-.06 (18)
4. Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations in 40 CFR 63.443, 63.444, or 63.445 shall comply with either of the following requirements: a. On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to manufacturer's specifications a flow indicator that provides a record of the presence of gas stream flow in the bypass line at least once every 15 minutes. The flow indicator shall be installed in the bypass line in such a way as to indicate flow in the bypass line; or b. For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems
Provisos

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. *Detectable leak procedures.* To measure detectable leaks for closed-vent systems as specified in 40 CFR 63.450 or for pulping process wastewater collection systems as specified in 40 CFR 63.446(d)(2)(i), the owner or operator shall comply with the following: a. Method 21 of 40 CFR Part 60 Appendix A; and b. The instrument specified in Method 21 shall be calibrated before use according to the procedures specified in Method 21 on each day that leak checks are performed. The following calibration gases shall be used: (i) Zero air (less than 10 parts per million by volume of hydrocarbon in air); and (ii) A mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 parts per million by volume methane or n-hexane.	Rule 335-3-11-.06 (18)
2. *Negative pressure procedures.* To demonstrate negative pressure at process equipment enclosure openings as specified in 40 CFR §63.450(b), the owner or operator shall use one of the following procedures: a. An anemometer to demonstrate flow into the enclosure opening; b. Measure the static pressure across the opening; c. Smoke tubes to demonstrate flow into the enclosure opening; or d. Any other industrial ventilation test method demonstrated to the Administrator's satisfaction.	Rule 335-3-11-.06 (18)
Emission Monitoring	
1. Each enclosure and closed-vent system used to comply with 40 CFR §63.450(a) shall comply with the requirements specified in provisos (1)(a) through (1)(f) of this section. a. For each enclosure opening, a visual inspection of the closure mechanism specified in 40 CFR 63.450(b) shall be performed at least once per calendar month with at least 15 days between inspections to ensure the opening is maintained in the closed position and sealed. b. Each closed-vent system required by 40 CFR 63.450(a) shall be visually inspected at least once per calendar month with at least 15 days between inspections and at other times as requested by the Administrator. The visual inspection shall include inspection of ductwork, piping, enclosures, and connections to covers for visible evidence of defects. c. For positive pressure closed-vent systems or portions of closed-vent systems, demonstrate no detectable leaks as specified in 40	Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
CFR 63.450(c) measured initially and annually by the procedures in 40 CFR 63.457(d).	
d. Demonstrate initially and annually that each enclosure opening is maintained at negative pressure as specified in 40 CFR 63.457(e).	
e. The valve or closure mechanism specified in 40 CFR 63.450(d)(2) shall be inspected at least once per calendar month with at least 15 days between inspections to ensure that the valve is maintained in the closed position and the emission point gas stream is not diverted through the bypass line.	Rule 335-3-11-.06 (18)
f. If an inspection required by provisos (a) through (e) of this section identifies visible defects in ductwork, piping, enclosures or connections to covers required by 40 CFR 63.450, or if an instrument reading of 500 parts per million by volume or greater above background is measured, or if enclosure openings are not maintained at negative pressure, then the following corrective actions shall be taken as soon as practicable.	
(i) A first effort to repair or correct the closed-vent system shall be made as soon as practicable but no later than 5 calendar days after the problem is identified.	
(ii) The repair or corrective action shall be completed no later than 15 calendar days after the problem is identified. Delay of repair or corrective action is allowed if the repair or corrective action is technically infeasible without a process unit shutdown or if the owner or operator determines that the emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed by the end of the next process unit shutdown.	
2. Each pulping process condensate closed collection system used to comply with 40 CFR 63.446(d) shall comply with the requirements specified in provisos 2(a) through 2(c) of this section.	Rule 335-3-11-.06 (18)
a. Each pulping process condensate closed collection system shall be visually inspected at least once per calendar month with at least 15 days between inspections and shall comply with the inspection and monitoring requirements specified in 40 CFR 63.964 of subpart RR of this part, except:	
(i) Owners or operators shall comply with the recordkeeping requirements of 40 CFR 63.454 instead of the requirements specified in 40 CFR 63.964(a)(1)(vi) and (b)(3) of subpart RR of Part 63.	
(ii) Owners or operators shall comply with the inspection and monitoring requirements for closed-vent systems and control devices specified in provisos (a) and (k) of 40 CFR 63.453	

Federally Enforceable Provisos	Regulations
instead of the requirements specified in 40 CFR 63.964(a)(2) of subpart RR of this part. b. Each condensate tank used in the closed collection system shall be operated with no detectable leaks as specified in 40 CFR 63.446(d)(2)(i) measured initially and annually by the procedures specified in 40 CFR 63.457(d). c. If an inspection required by this section identifies visible defects in the closed collection system, or if an instrument reading of 500 parts per million or greater above background is measured, then corrective actions specified in 40 CFR 63.964(b) of subpart RR of this part shall be taken.	
Recordkeeping and Reporting Requirements	
1. The owner or operator of each affected source subject to the requirements of Subpart S shall comply with the recordkeeping requirements of 40 CFR 63.10 of Subpart A, as shown in Table 1 of Subpart S and the requirements specified in provisos 2 and 3 of this section for the monitoring parameters specified in 40 CFR 63.453.	Rule 335-3-11-.06 (18)
2. For each applicable enclosure opening, closed-vent system, and closed collection system, the owner or operator shall prepare and maintain a site-specific inspection plan including a drawing or schematic of the components of applicable affected equipment and shall record the following information for each inspection: a. Date of inspection; b. The equipment type and identification; c. Results of negative pressure tests for enclosures; d. Results of leak detection tests; e. The nature of the defect or leak and the method of detection (i.e., visual inspection or instrument detection); f. The date the defect or leak was detected and the date of each attempt to repair the defect or leak; g. Repair methods applied in each attempt to repair the defect or leak; h. The reason for the delay if the defect or leak is not repaired within 15 days after discovery; i. The expected date of successful repair of the defect or leak if the repair is not completed within 15 days; j. The date of successful repair of the defect or leak; k. The position and duration of opening of bypass line valves and the condition of any valve seals; and l. The duration of the use of bypass valves on computer controlled valves.	Rule 335-3-11-.06 (18)

Enclosures and Closed-Vent Systems
Provisos

Federally Enforceable Provisos	Regulations
3. The owner or operator shall record the CMS parameters specified in 40 CFR 63.453 and meet the requirements specified in proviso 1 of this section for any new affected process equipment or pulping process condensate stream that becomes subject to the standards in Subpart S due to a process change or modification.	Rule 335-3-11-.06 (18)

RICE MACT Units
Informational Summary

Description:

X031	ClO_2 Plant Emergency Generator
X032	Administrative Building and Server Room Emergency Generator
X308	Lime Kiln Auxiliary Drive Engine
X608	Emergency Fire Pump Engine

Emission Unit:	**Installation Date:**	**Reconstruction/Modification Date:**
X031	December 13, 2012	N/A
X032	October 3, 2017	N/A
X308	October 1, 2014	N/A
X608	May 1, 2006	N/A

Operating Capacity:	**HP**	**Type**	**Fuel**
X031	197	Compression	Diesel
X032	463	Compression	Diesel
X308	66.8	Compression	Diesel
X608	200	Compression	Diesel

Operating Schedule:	**Calendar Year Limit:**	**Non-Emergency Use**
X031	N/A	≤ 100/50 hours/year
X032	N/A	≤ 100/50 hours/year
X308	N/A	N/A
X608	N/A	≤ 100/50 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart IIII
40 CFR Part 63 Subpart ZZZZ

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
X031, X032, X308, X608	All Units	SO_2	Only fire diesel fuel with a sulfur content not to exceed 15 parts per million	Rule 335-3-10-.02 (87)
X031, X032, X308, X608	All Units	Opacity	20% with one six-minute period up to 40% in any one-hour period	Rule 335-3-4-.01 (1)
X031, X032	ClO2 Plant Emergency Generator, Admin Building and Server Room Emergency Generator	PM, CO, and NOx+ NMHC	NMHC + NOx: 4.0 g/kW-hr CO: 3.5 g/kW-hr PM: 0.20 g/kW-hr	Rule 335-3-10-.02 (87)
X308	Lime Kiln Auxiliary Drive	PM, CO, and NOx+ NMHC	NMHC + NOx: 4.7 g/kW-hr CO: 5.0 g/kW-hr PM: 0.4 g/kW-hr	Rule 335-3-10-.02 (87)
X608	Emergency Fire Pump Engine	PM, CO, and NOx+ NMHC	NMHC + NOx: 10.5 g/kW-hr CO: 3.5 g/kW-hr PM: 0.54 g/kW-hr	Rule 335-3-10-.02 (87)

RICE MACT Units
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. These units are subject to the applicable requirements of ADEM Admin. Code R. 335-3-10-.02 (87), “Standards of Performance for Stationary Compression Ignition Internal Combustion Engines” (40 CFR Part 60 Subpart IIII).	Rule 335-3-10-.02 (1) and (87)
3. Pursuant to 40 CFR 63.6590(c), these units must meet the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII.	Rule 335-3-11-.06 (103)
4. These units are subject to ADEM Admin. Code R. 335-3-4-.01 for opacity.	Rule 335-3-4-.01 (1)
Emission Standards	
1. In accordance with 40 CFR 60.4211(c), the facility shall comply with the emission standards of Subpart IIII by purchasing engines that are certified by the manufacturer to meet the requirements of 40 CFR 60.4204(b), 60.4205(b), or 60.4205(c).	Rule 335-3-10-.02 (87)
2. In accordance with 40 CFR Part 60.4207(b), the permittee shall not burn any diesel fuel in all units that does not meet the following per-gallon standards of 40 CFR Part 80.510(b): a. Sulfur content shall not exceed 15 parts per million (ppm); and b. Cetane index shall be a minimum of 40 or the aromatic content shall not exceed 35 volume percent.	Rule 335-3-10-.02 (87)
3. For the Lime Kiln Auxiliary Drive, in accordance to 40 CFR 60.4204(b) and 60.4201(a), the permittee shall not cause or allow the emissions from this unit to exceed the applicable emission standards in Appendix I of 40 CFR Part 1039, specifically: a. The sum of the emissions of non-methane hydrocarbons (NMHC) and nitrogen oxides (NO_x) shall not exceed 4.7 g/kW-hr (3.51 g/hp-hr). b. Carbon monoxide emissions shall not exceed 5.0 g/kW-hr (3.73 g/hp-hr). c. Particulate Matter emissions shall not exceed 0.4 g/kW-hr (0.30 g/hp-hr)	Rule 335-3-10-.02 (87)
4. For the Admin. Building and Server Room Emergency Generator and ClO2 Plant Emergency Generator, in accordance with 40 CFR 60.4205(b) and 60.4202(a)(2), the permittee shall not cause or allow the applicable emission standards in Appendix I of 40 CFR Part 1039 to be exceeded, specifically: a. The sum of the emissions of non-methane hydrocarbons (NMHC) and nitrogen oxides (NOx) shall not exceed 4.0 g/kW-hr. b. Carbon monoxide (CO) emissions shall not exceed 3.5 g/kW-hr. c. Particulate matter (PM) emissions shall not exceed 0.20 g/kW-hr.	Rule 335-3-10-.02 (87)

RICE MACT Units
Provisos

Federally Enforceable Provisos	Regulations
5. For the Emergency Fire Pump Engine, in accordance with 40 CFR 60.4205(c) and 60.4202(d). the permittee shall not cause or allow the emissions from this unit to exceed the applicable emissions standards in Table 4, specifically: a. The sum of the emissions on non-methane hydrocarbons (NMHC) and nitrogen oxides (NOx) shall not exceed 10.5 g/kW-hr. b. Carbon monoxide (CO) emissions shall not exceed 3.5 g/kW-hr. c. Particulate matter (PM) emissions shall not exceed 0.54 g/kW-hr.	Rule 335-3-10-.02 (87)
6. Pursuant to 40 CFR Part 60 4206, the facility must operate and maintain these units according to the emission standards of 40 CFR Part 60.4204 and 60.4205 over the entire life of the engines.	Rule 335-3-10-.02 (87)
7. For all units, opacity shall not exceed 20% as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as 40%.	Rule 335-3-4-.01 (1)
Compliance and Performance Test Methods and Procedures	
1. In accordance with 40 CFR 60.4211(a), the facility shall operate and maintain all stationary CI ICEs and control devices according to the manufacturer's written instructions or procedures. Only changes to those setting permitted by the manufacturer are allowed to be made.	Rule 335-3-10-.02 (87)
2. For these units, Method 9 as defined in 40 CFR 60, Appendix A, shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. The facility must install a non-resettable hour meter and monitor all applicable units according to the requirements of 40 CFR 60.4209(a) and 60.4211(f).	Rule 335-3-10-.02 (87)
2. The facility shall monitor and collect data according to the requirements of 40 CFR 60.4214(b).	Rule 335-3-10-.02 (87)
Recordkeeping and Reporting Requirements	
1. The facility shall keep records of the operation of the applicable engines in emergency and non-emergency service, which is recorded through the non-resettable hour meter. The owner shall record the time of operation of the engine and the reason the engine was in operation during that time. These records shall be retained onsite for inspection purposes for a period of at least five years.	Rule 335-3-10-.02 (87)
2. The facility shall keep records in accordance with 40 CFR 60.4214(b) for all units.	Rule 335-3-10-.02 (87)

RICE MACT Units
Provisos

Federally Enforceable Provisos	Regulations
3. To demonstrate compliance with the fuel limitations, the permittee shall only purchase fuels subject to meeting the fungible specifications for diesel fuel. Records of these fuel purchases shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of 5 years from the date of generation of each record.	Rule 335-3-10-.02 (87)

Sources Subject Only to the General Provisos
Informational Summary

Description:

Emission Unit No:

Installation Date: **Reconstruction/Modification Date**:

Operating Capacity:

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

Pollutants Emitted

Emission limitations:

Description	Regulation
Woodyard Fugitives	General Provisos
Batch Digester Filling Fugitives	General Provisos
Black Liquor and Knot Fill Tank	General Provisos
Black Liquor Oxidation Tank	General Provisos
Brownstock High Density Pulp Storage Tanks (3)	General Provisos
Combination Liquor Tank	General Provisos
Gasoline Storage Tank	General Provisos
Green Liquor Clarifier	General Provisos
Green Liquor Storage Tank	General Provisos
Heavy Black Liquor Storage Tank	General Provisos
J3 Makeup Air Unit Heaters	General Provisos
Lime Mud Precoat Filter	General Provisos
Lime Mud Precoat Filter Vacuum Pump	General Provisos
Lime Mud Washer	General Provisos
Lime Slaker with Causticizers	General Provisos
No. 1 Recycle Plant	General Provisos
No. 2 Recycle Plant	General Provisos
No. 1 Soap Storage Tank	General Provisos
No. 2 Soap Storage Tank	General Provisos
No. 1 Weak Black Liquor Storage Tank	General Provisos
No. 2 Weak Black Liquor Storage Tank	General Provisos
Purchased Lime Silo	General Provisos
Reburned Lime Silo	General Provisos
Soap Skimmer Tank	General Provisos
Tall Oil Reactor	General Provisos
Wastewater Treatment System Fugitives	General Provisos
White Liquor Clarifier	General Provisos

Fugitive Dust Plan
Informational Summary

Description: Fugitive Dust Plan

Installation Date: N/A **Reconstruction/Modification Date:** N/A

Operating Capacity: N/A

Operating Schedule: 8760 hrs/yr

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Fugitive	Fugitive Dust	PM	N/A	Rule 335-3-4-.02

Fugitive Dust Plan
Provisos

Federally Enforceable Provisos	Regulations
Applicability	
1. These units are subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits."	Rule 335-3-16
Emission Standards	
1. The permittee shall take reasonable precautions as directed in Proviso 1 of "Compliance and Performance Test Methods and Procedures" below to prevent fugitive dust at the facility which travel beyond the facility property line and cause a nuisance.	Rule 335-3-4-.02
Compliance and Performance Test Methods and Procedures	
1. The permittee shall utilize the Facility Dust Plan (Appendix A), in order to minimize and address fugitive dust emissions.	Rule 335-3-16-.07
Emission Monitoring	
1. The permittee shall conduct weekly, considering factors such as naturally wet conditions, visual observations for fugitive dust in areas listed with potential to generate fugitive dust, and if visible emissions traveling beyond the facility property line are observed, any necessary corrective actions shall be initiated within four (4) hours of observation.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. The permittee shall maintain a record of all inspections, to include visible observations performed to satisfy the requirements of Proviso 1 of Emission Monitoring section of this Permit. This shall include problems observed and corrective actions taken. The records shall be retained for at least five (5) years from the date of generation and shall be available upon request.	Rule 335-3-16-.05

Fugitive Dust Management Plan

Introduction

Boise White Paper, LLC, a wholly-owned subsidiary of Packaging Corporation of America, operates an unbleached Kraft pulp and paper mill in Jackson, Clarke County, Alabama (Jackson Mill), which is a major air emissions source under the Title V Major Source Operating Permit program and the Prevention of Significant Deterioration (PSD) permitting program. The Jackson Mill operates under Title V Major Source Operating Permit No. 102-0001 issued by the Alabama Department of Environmental Management (ADEM). This plan has been developed at the request of ADEM to satisfy the objectives outlined below.

Plan Objectives

The Jackson Mill's Fugitive Dust Management Plan will identify control measures and practices to minimize and manage fugitive dust from applicable sources where it is reasonably practical to do so. "Fugitive dust" can generally be defined as filterable particulate matter (PM) that enters the atmosphere without first passing through a stack or duct designed to direct or control its flow. The Fugitive Dust Management Plan defines the following:

- Procedures that Jackson Mill personnel will follow to monitor and control emissions where necessary.
- Steps that the Jackson Mill will take to minimize fugitive dust emissions and demonstrate that corrective procedures are followed in the event that reasonably avoidable fugitive emissions are observed.

To meet these objectives, the Fugitive Dust Management Plan identifies the following:

- Potential sources of fugitive dust within the facility
- Primary control measures and practices to manage and minimize fugitive emissions
- Visual determinations of fugitive dust emissions and corrective action practices
- Fugitive dust management recordkeeping practices

Identified Dust Sources	Primary Controls	Practices	Recordkeeping
Paved Roads	• Speed limit (paved roads) of 8 mph. • Dust suppression via watering as needed.	• Weekly visual observation of any potential fugitive emissions	• Weekly observations and records of corrective actions (if necessary)
Unpaved Roads/ Landfill	• Speed limit (paved roads) of 8 mph. • Dust suppression via watering as needed. • Routine inspection of road surfaces/landfill for necessary corrective actions.	• Weekly visual observation of any potential fugitive emissions • Weekly inspection of unpaved roads	• Weekly observations and records of corrective actions • Records of inspections and corrective actions of unpaved roads
Mobile Equipment/ Material Handling	• Drop distance for material handling is generally limited to 3 feet. • Lime residuals are wetted prior to transportation for waste handling. • Primary clarifier sludge is loaded directly into dump trucks (no storage pile) • Boiler fly ash is loaded directly into dump trucks (no storage pile)	• Training material provided to operators and contractors on proper handling of dry materials	• Annual record of training documentation
Storage Piles	• Bark pile is generally greater than 40% moisture • Chip piles are comprised of green wood (typically greater than 40% moisture)	• Weekly observation of storage pile conditions • Use of water as dust suppressant, as necessary	• Weekly inspections and records of corrective actions